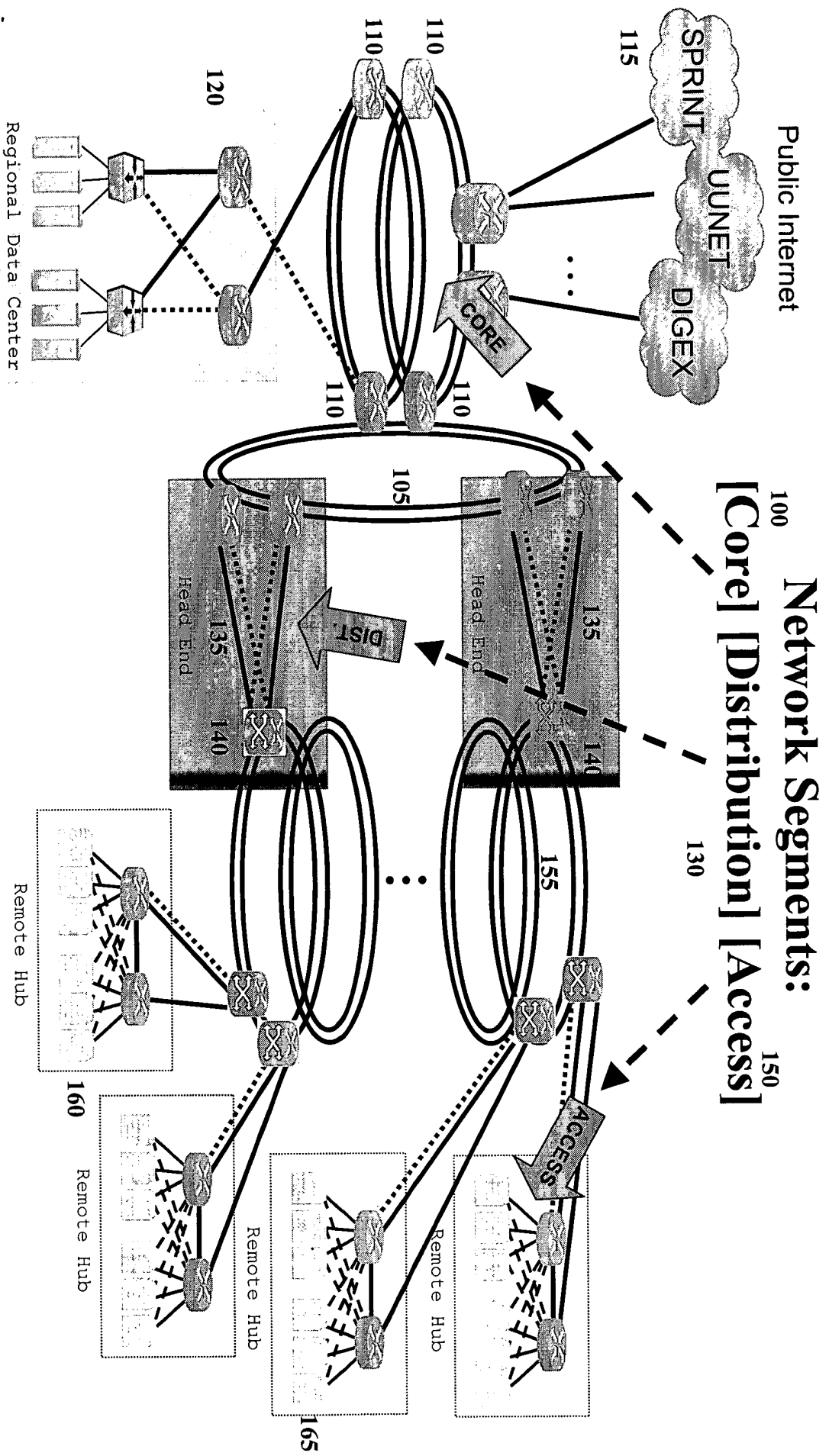
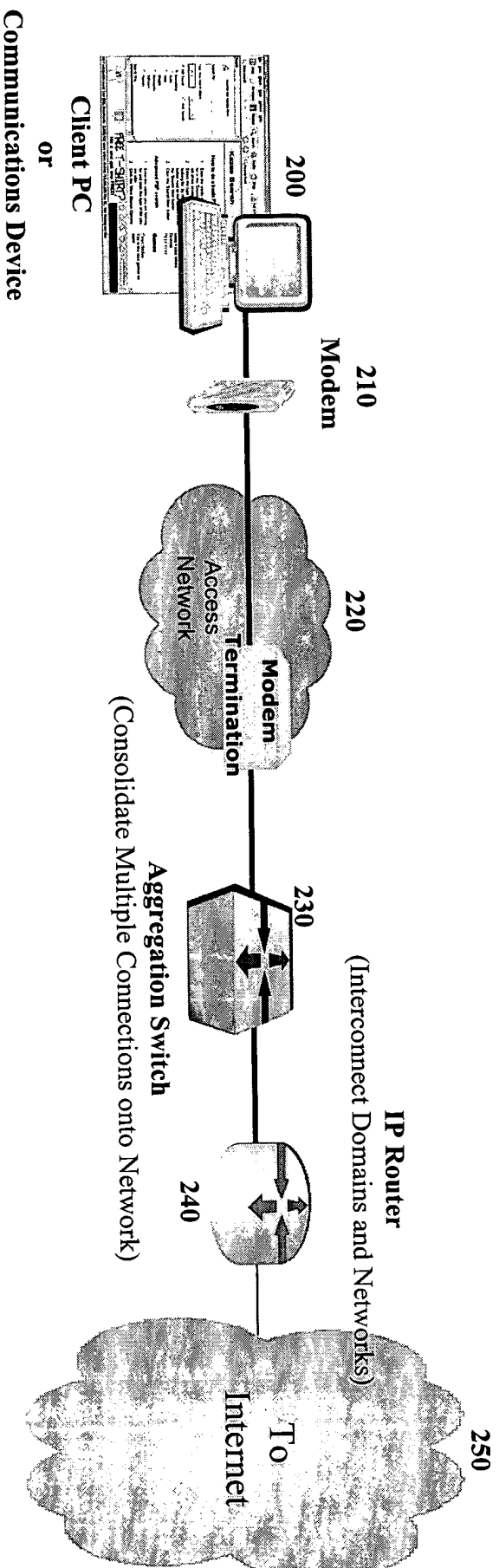


Figure 1

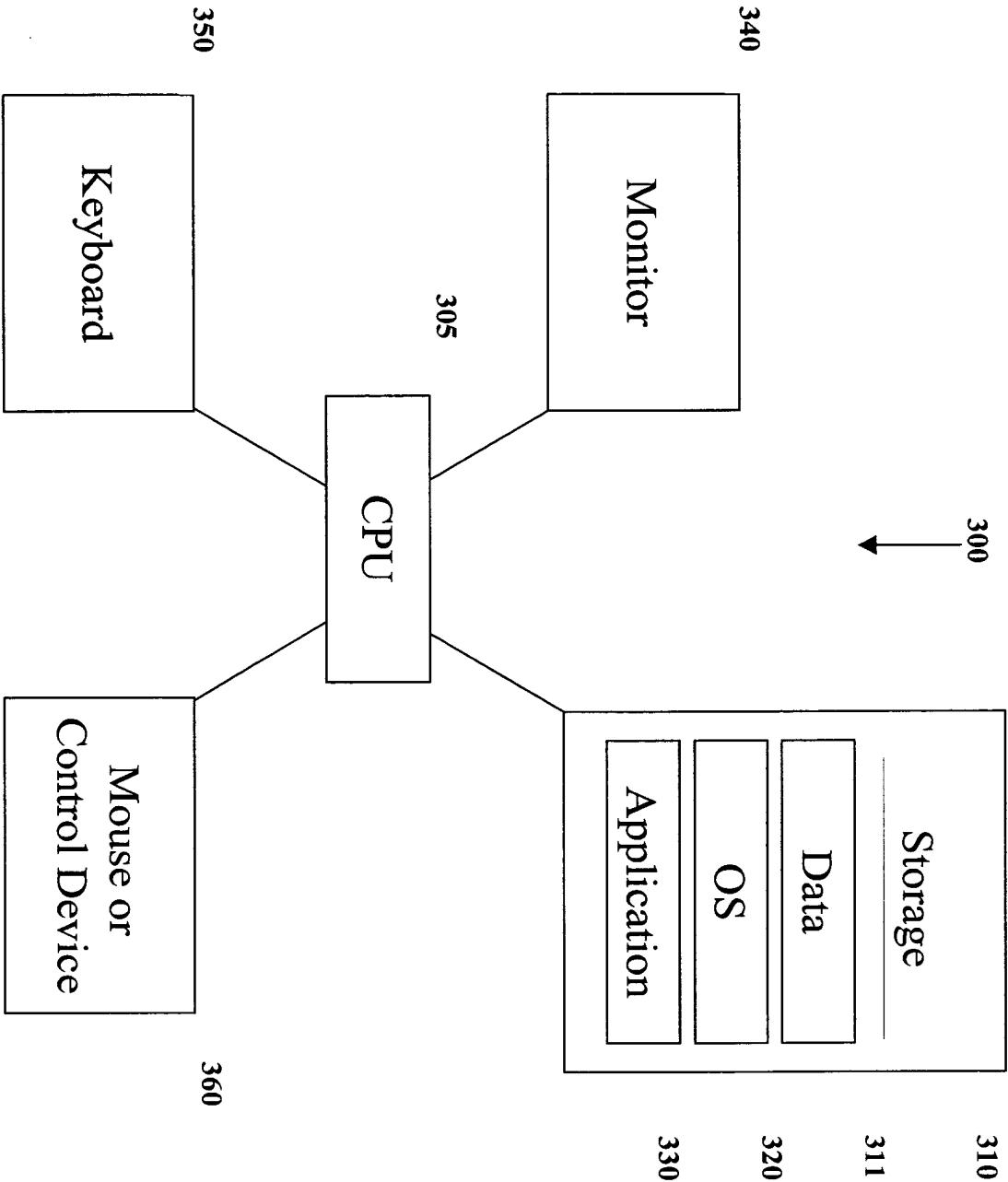


# Figure 2

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS

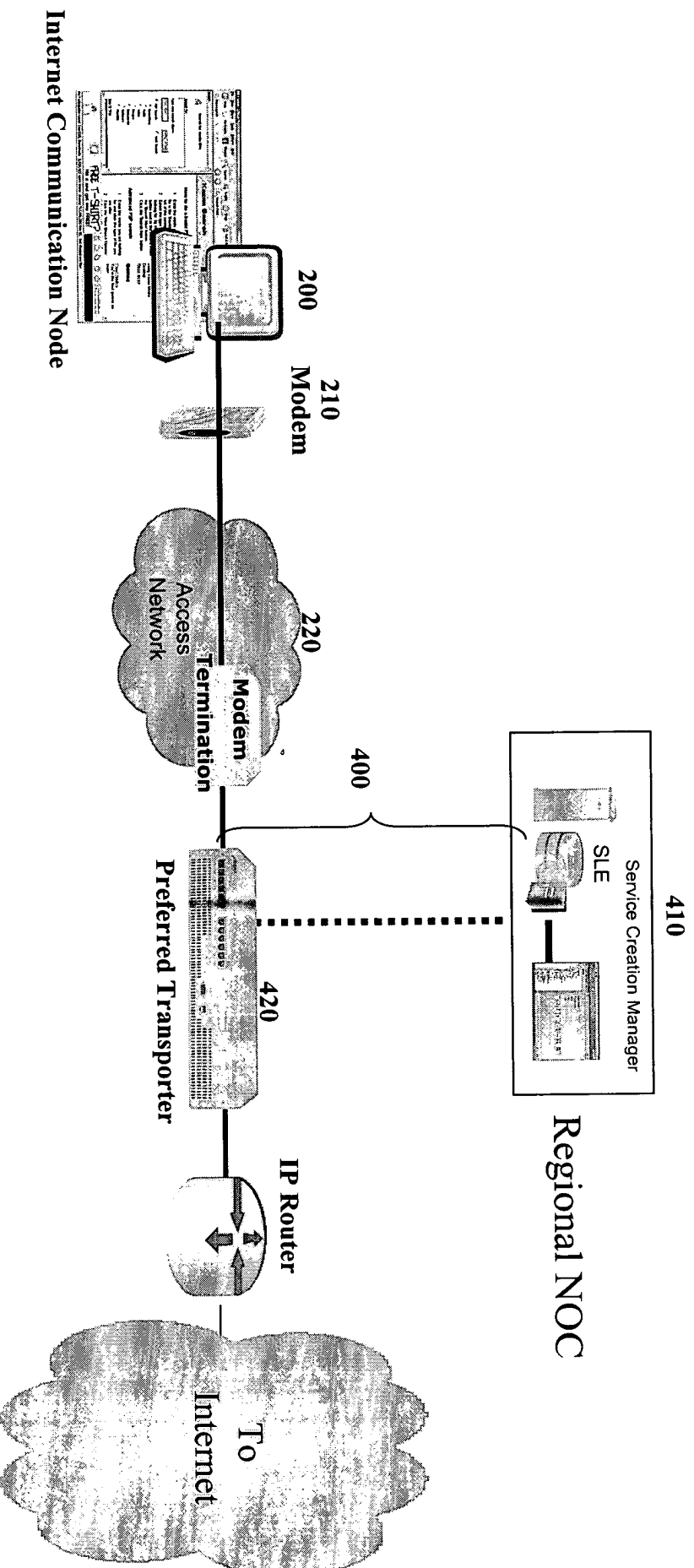


**Figure 3**



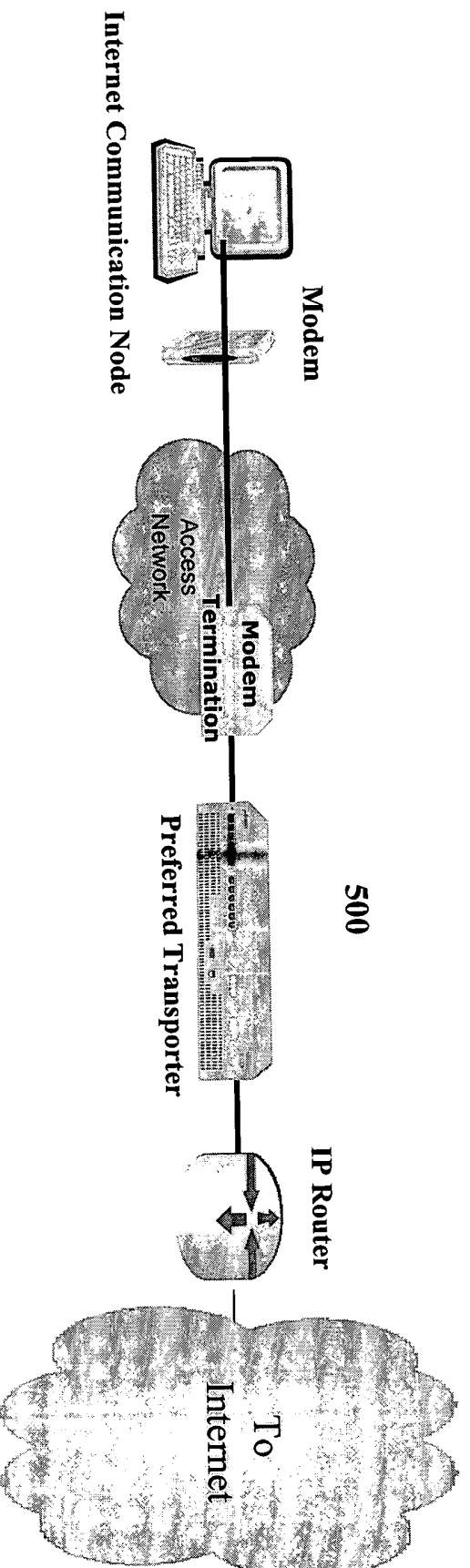
# Figure 4

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS



# Figure 5

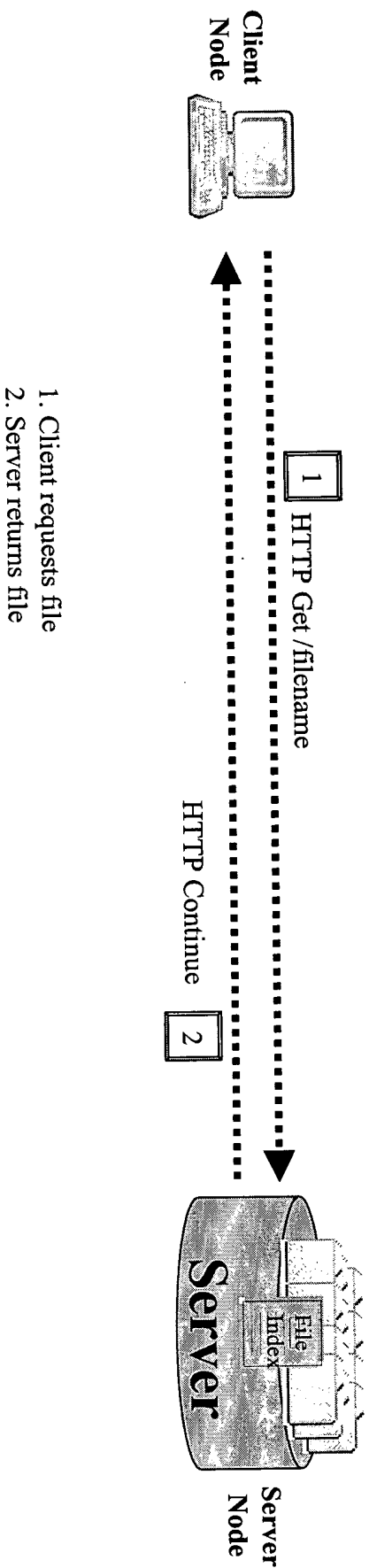
METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS



# Figure 6

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

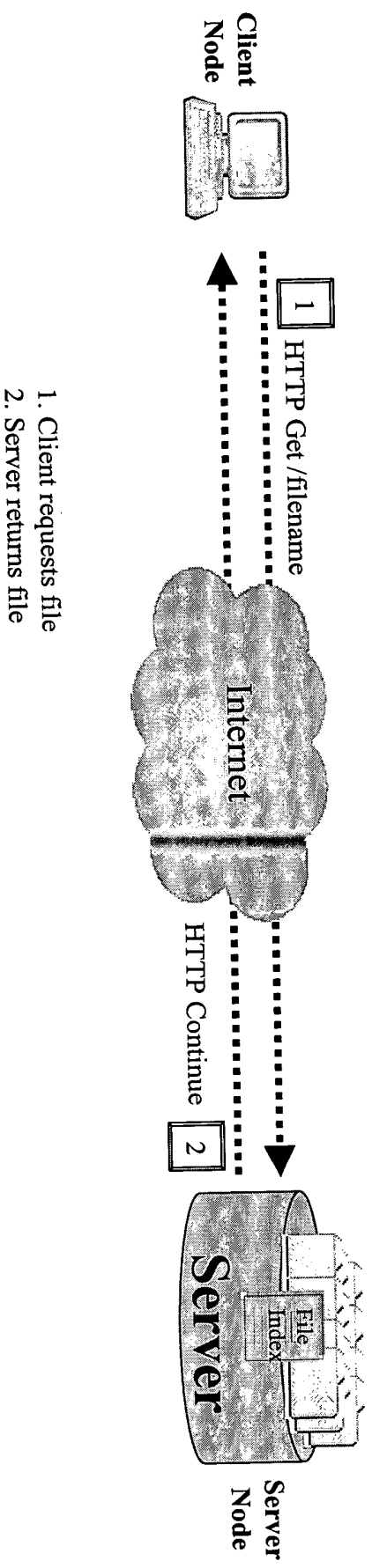
In Client/Server  
networks, nodes  
act only as clients



# Figure 7

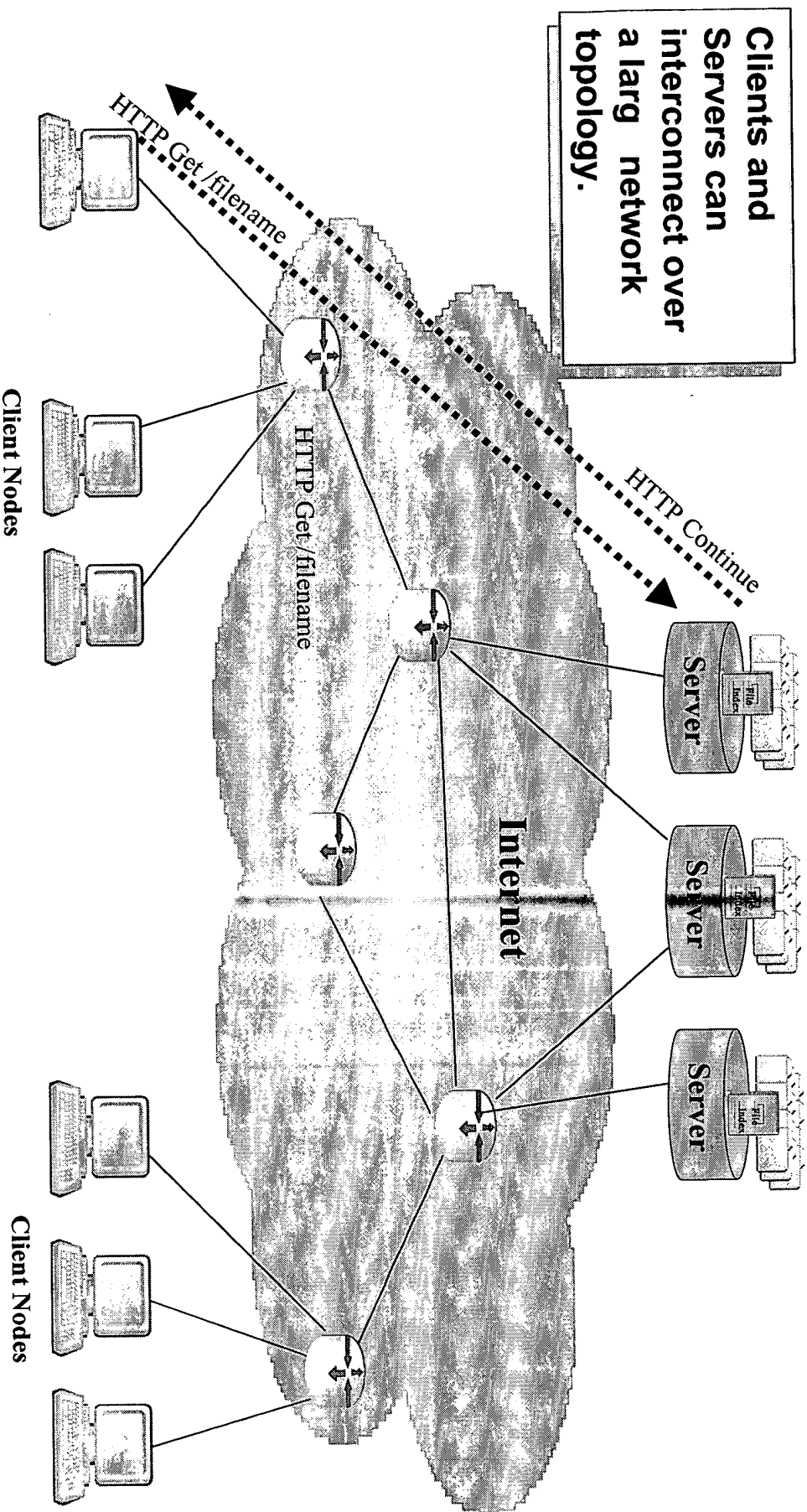
METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

In Client/Server  
networks, nodes  
act only as clients



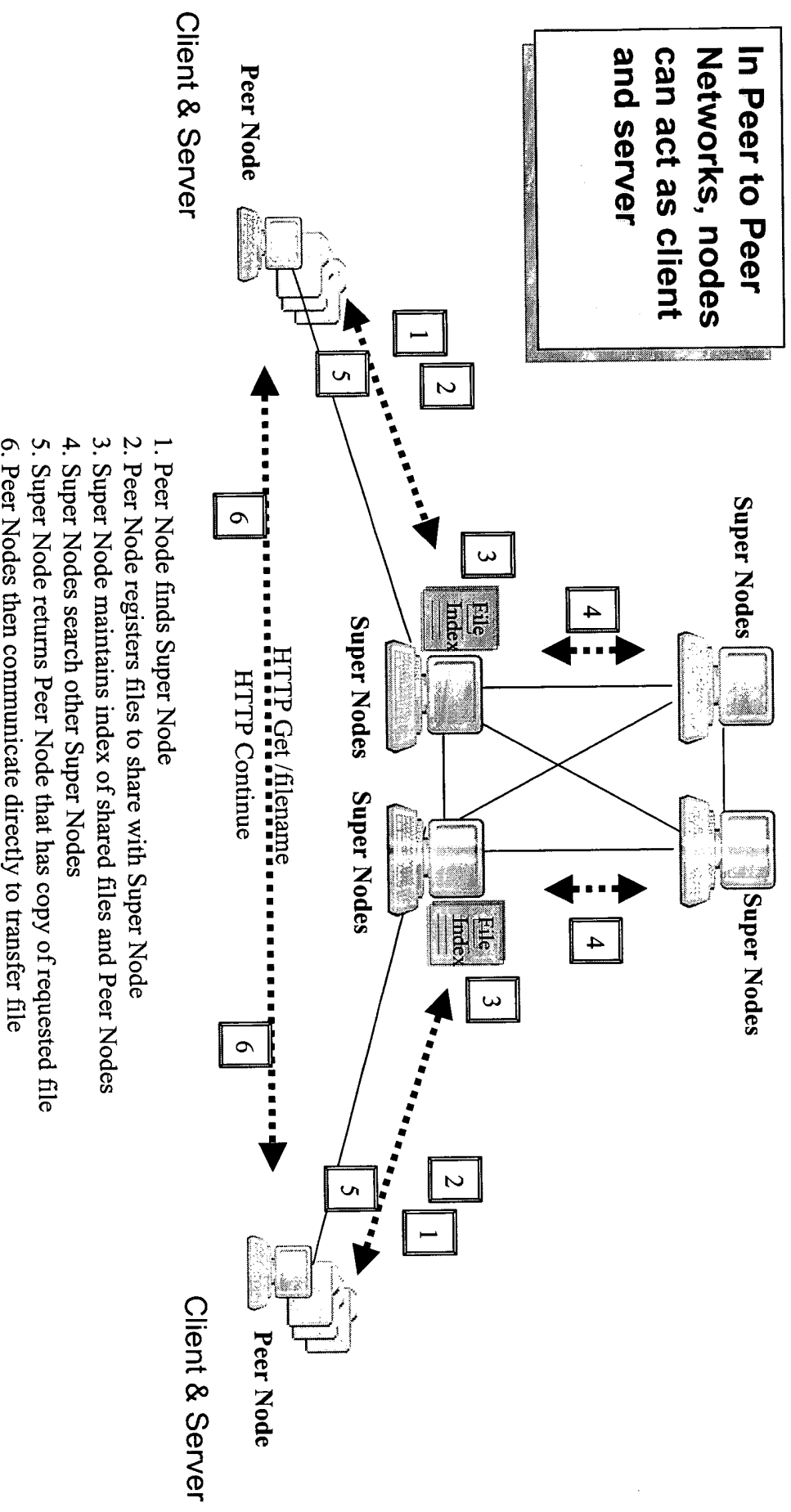
# Figure 8

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS



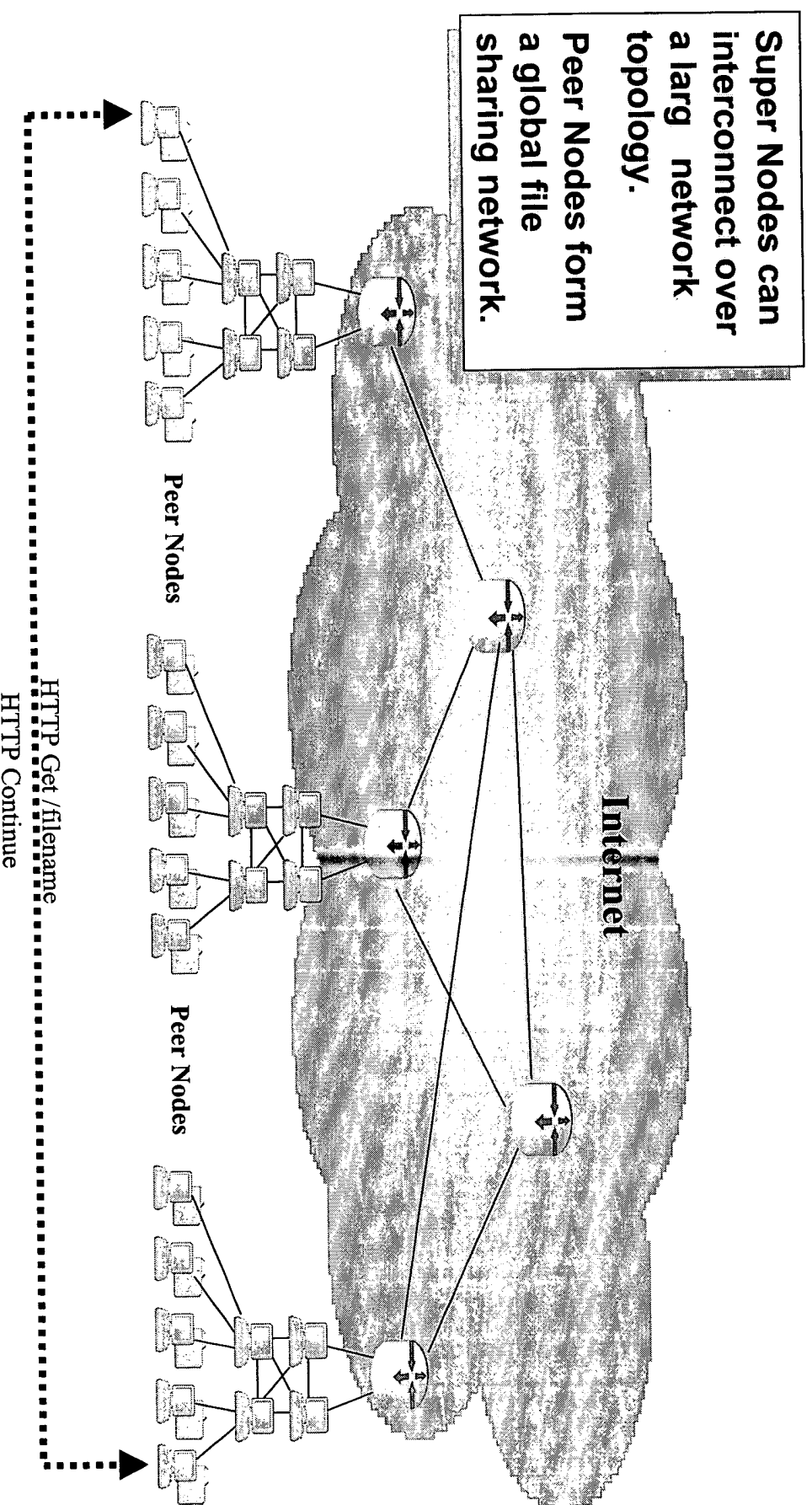


# Figure 9



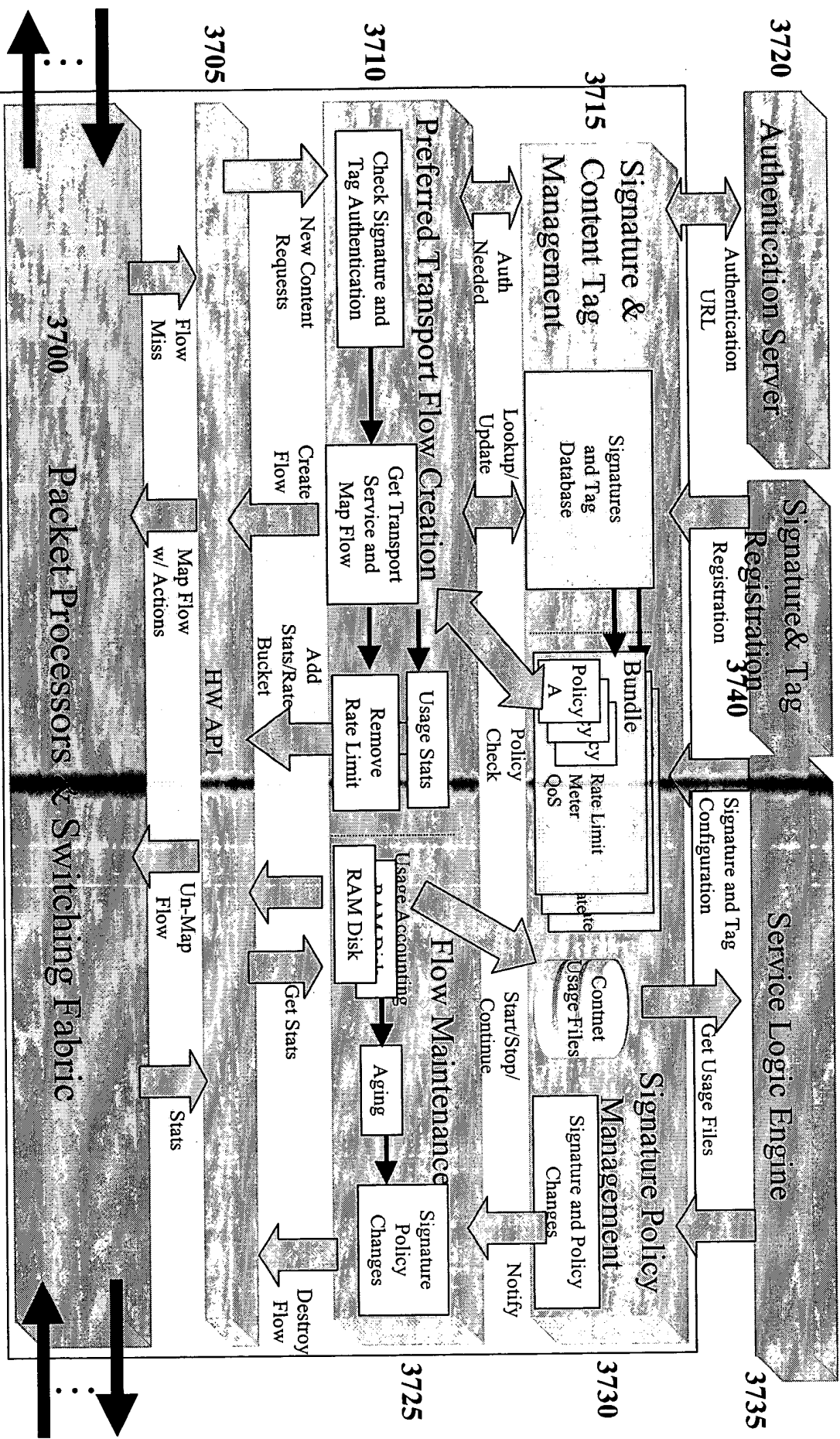
# Figure 10

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



# Figure 11

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
 DOCKET NO.: 026215-000005  
 Kurt A. DOBBINS



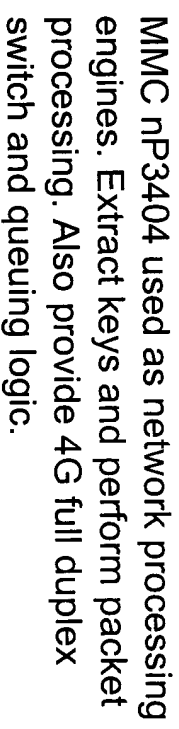
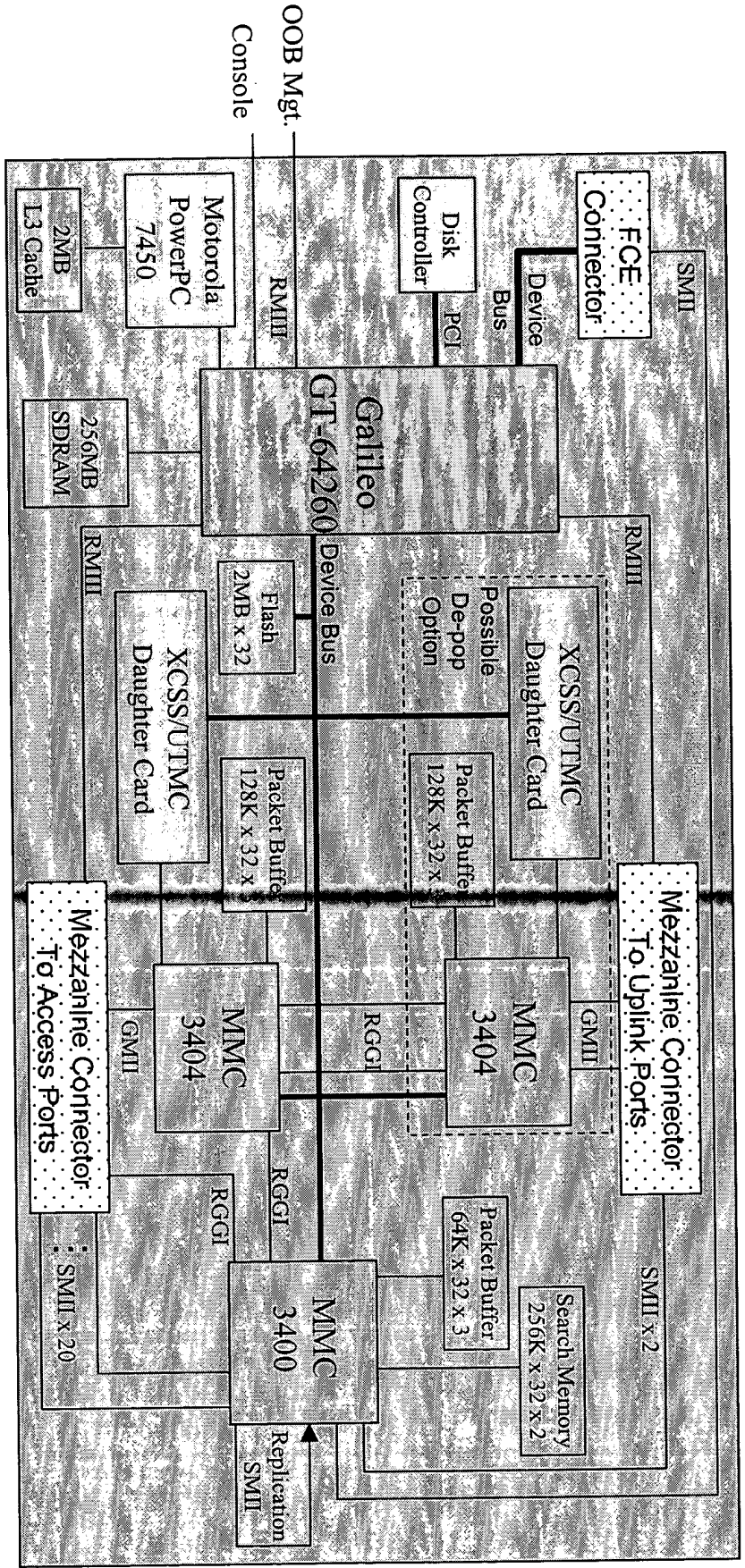


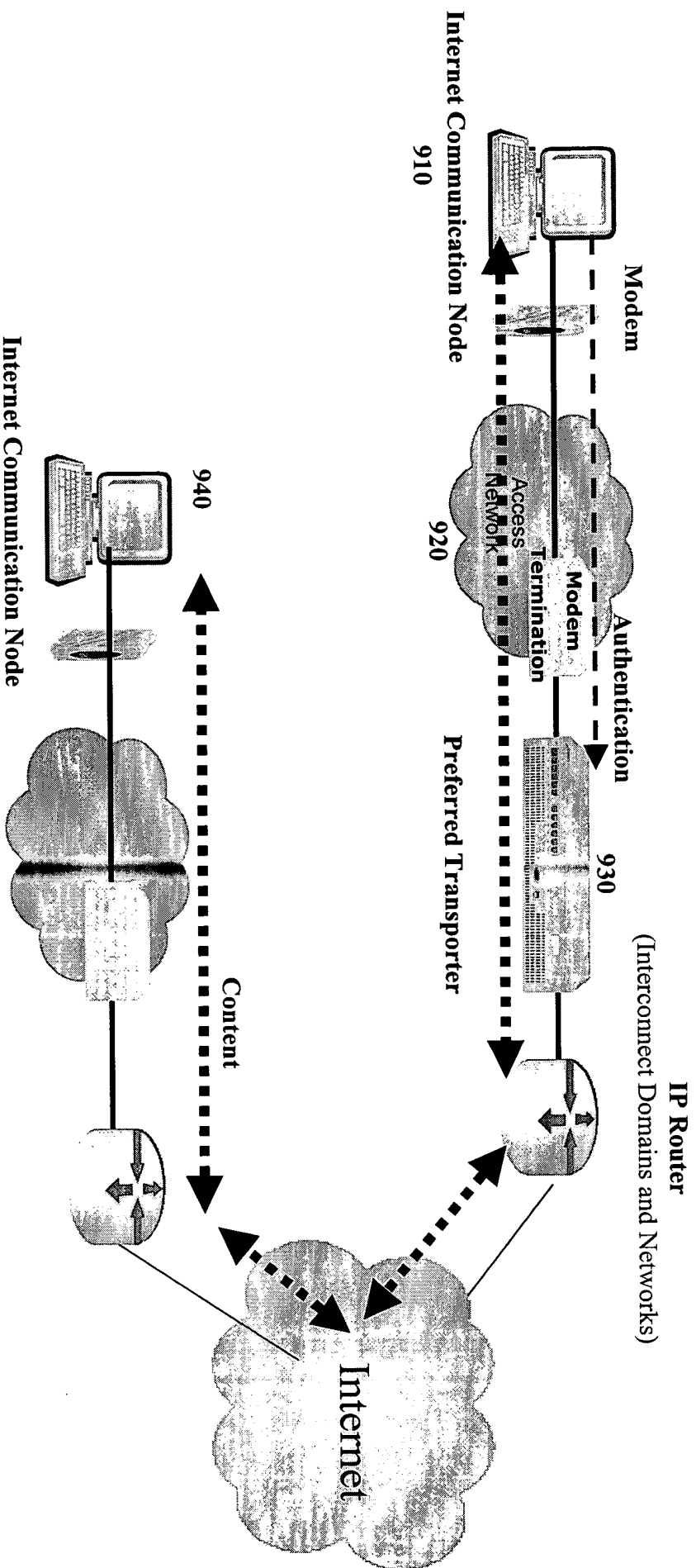
Figure 13

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO. 026215-00005  
Kurt A. DOBBINS



# Figure 14

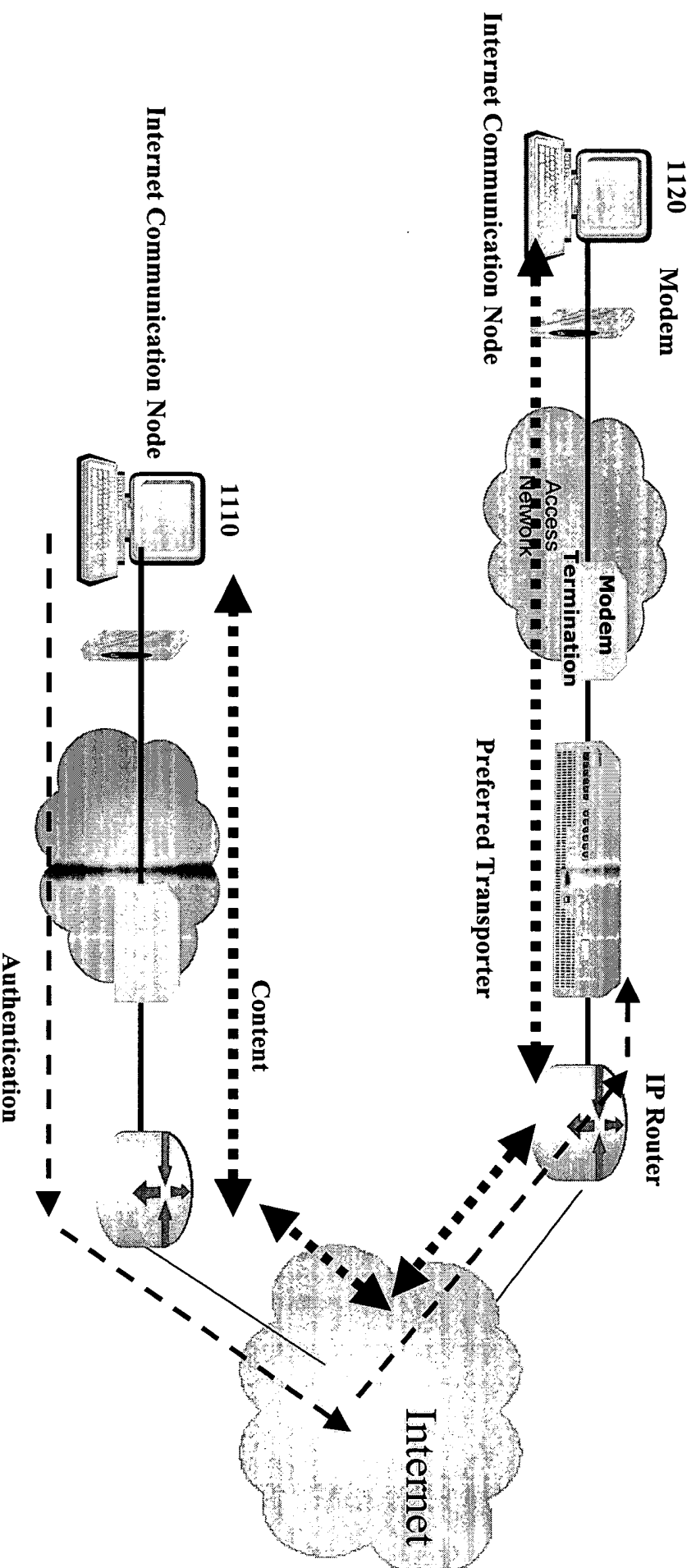
METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS





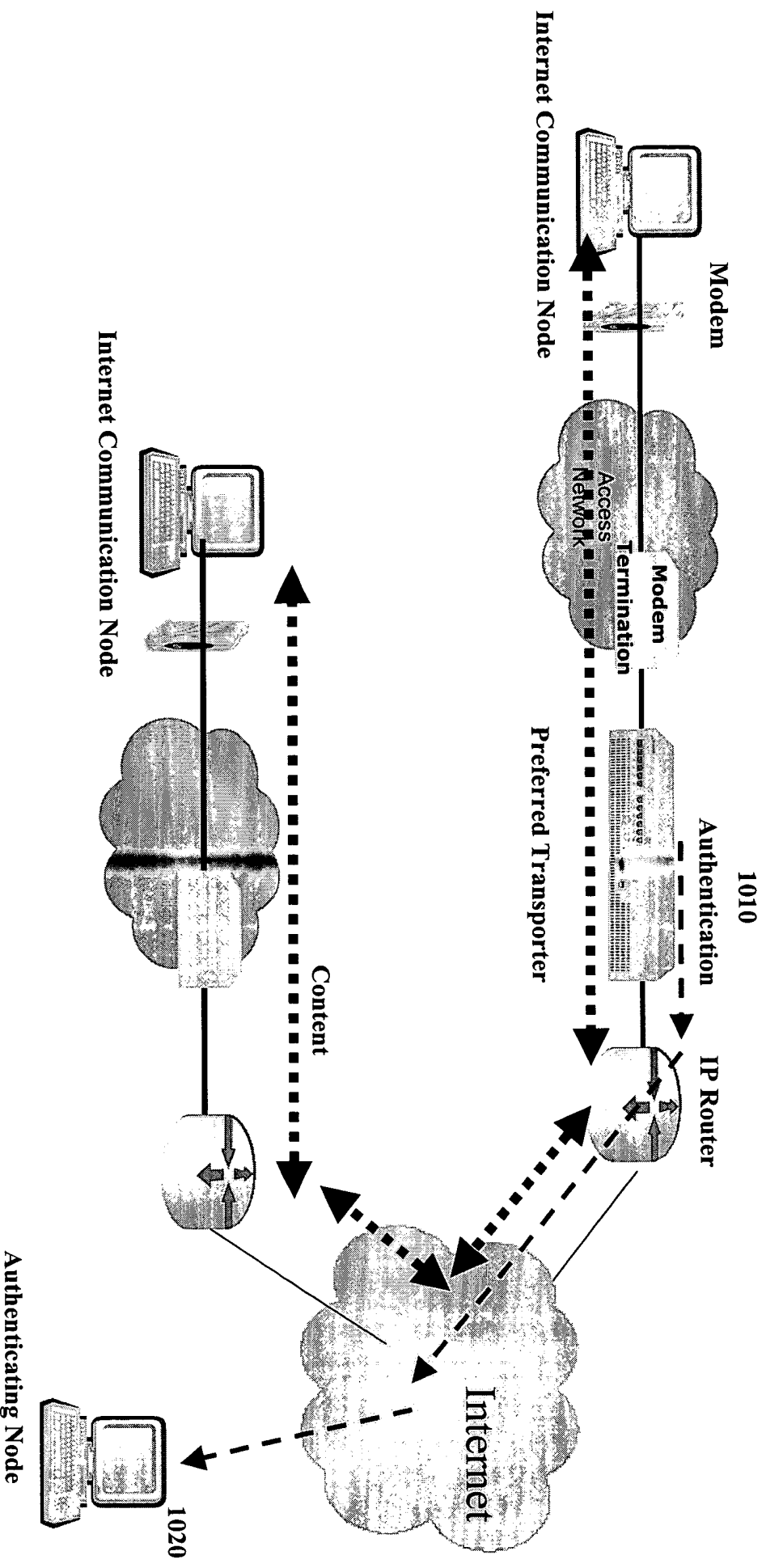
# Figure 15

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



**Figure 16**

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS





## METHOD AND SYSTEM FOR BILLING OVER A NETWORK

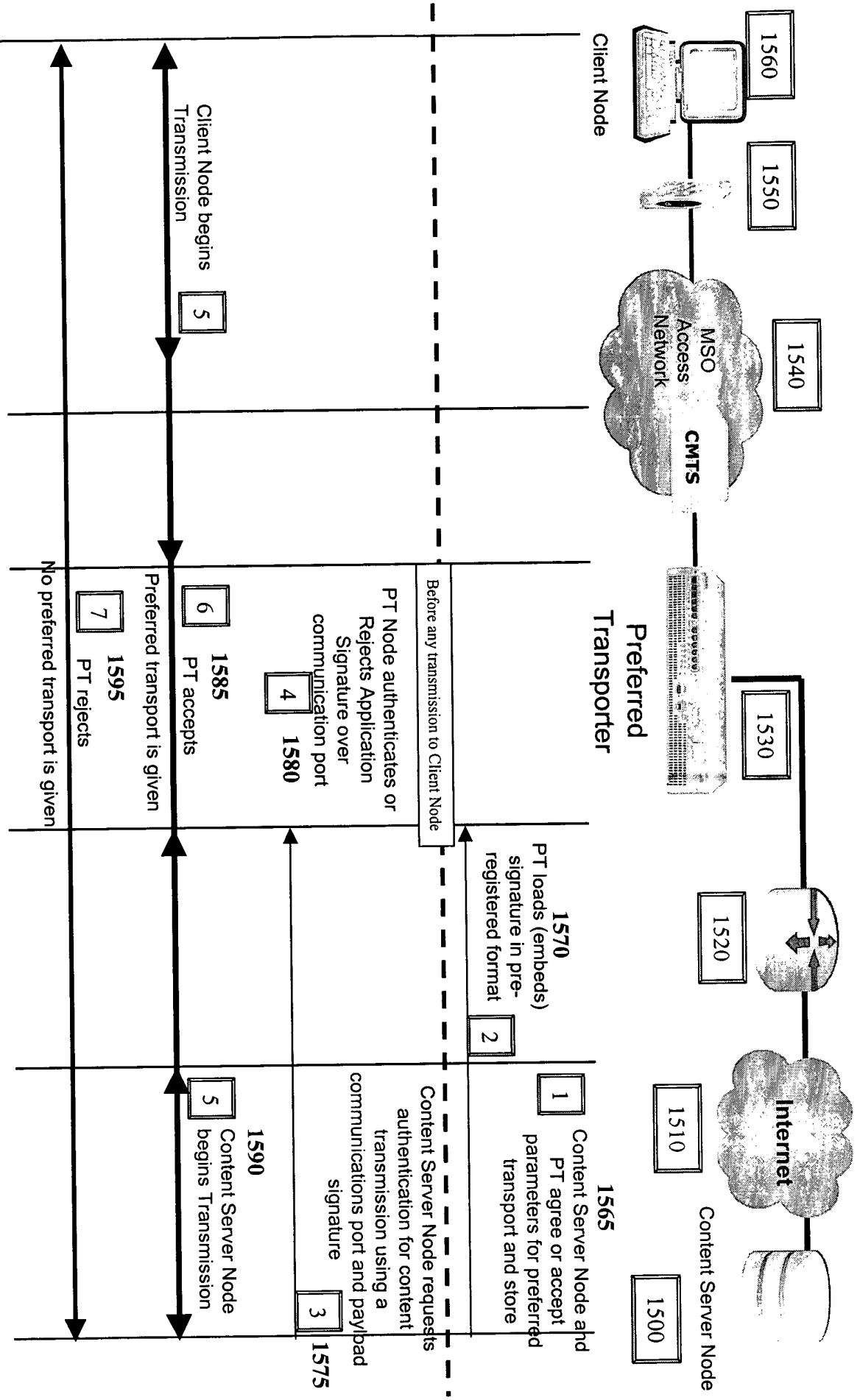
DOCKET NO: 026215-00005  
Kurt A. DOBBINS

1	2	3	4	5	6	7	8	9	0	1	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2		
Tag Identifier								Tag Length				Tag Version				Reserved				Transport Service				Authenticated Transport				Reserved							
Content Class/Type Encoded OID																																			
Content Originator Encoded OID																																			
Content Application Encoded OID																																			
Content Meta Data Encoded OID																																			
Authentication URL																																			

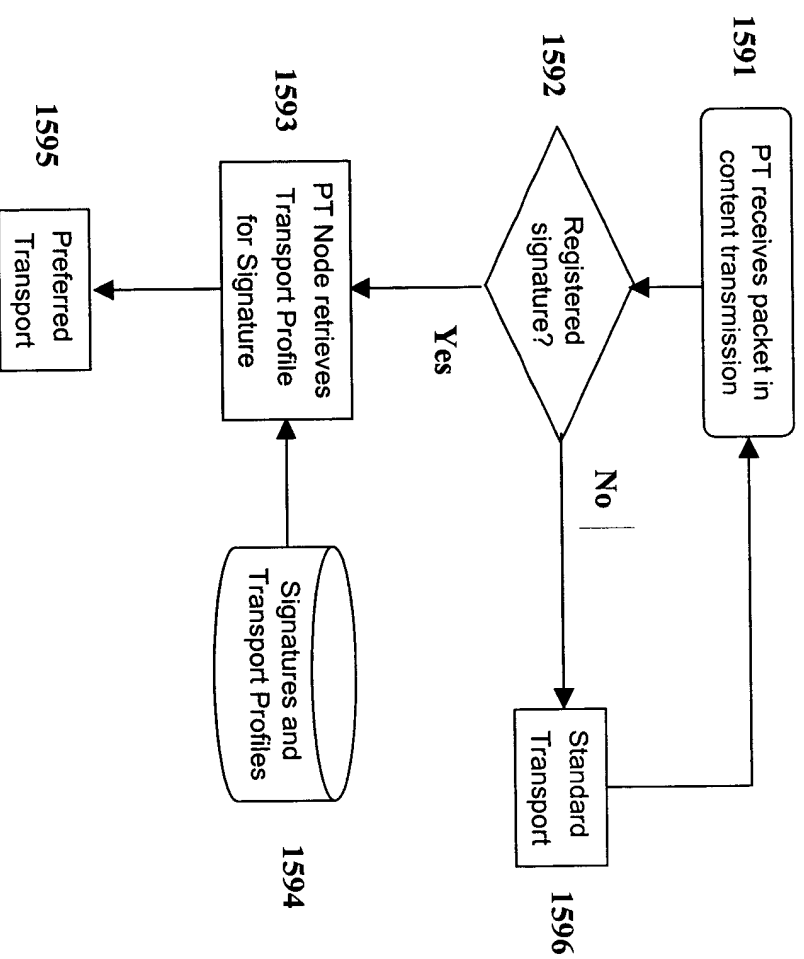
# Figure 18

Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "AUTH"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	4	Reserved for Future Use	Unused
Transport Service	4	Preferred Transport Bit Mask for Transport Service Preference.	1 = No Rate Limit    2 = No Byte Cap 4 = On-Demand BW   8 = BLOCK ACCESS
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Authentication URL	32	URL of authentication server	

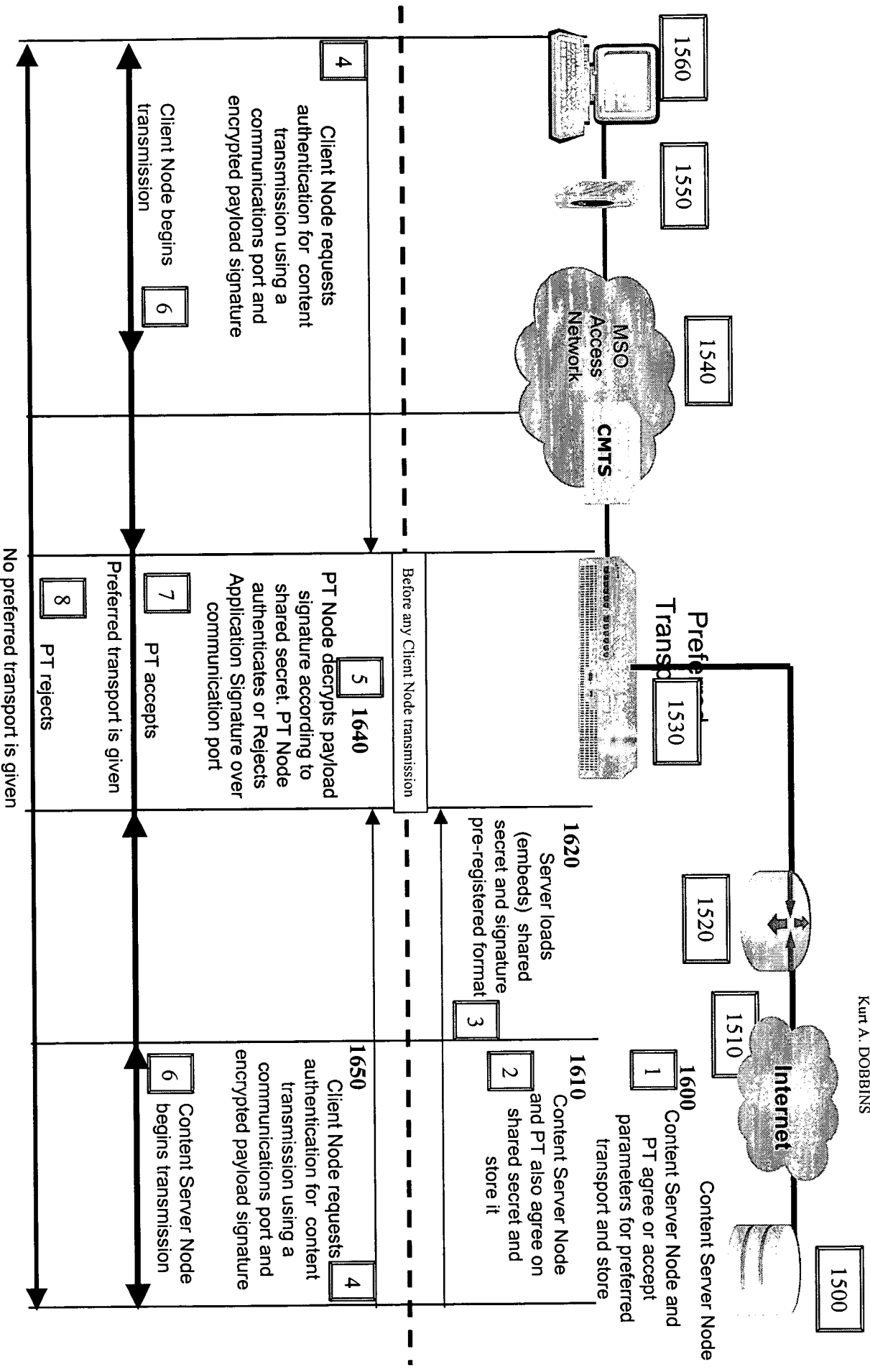
# Figure 19



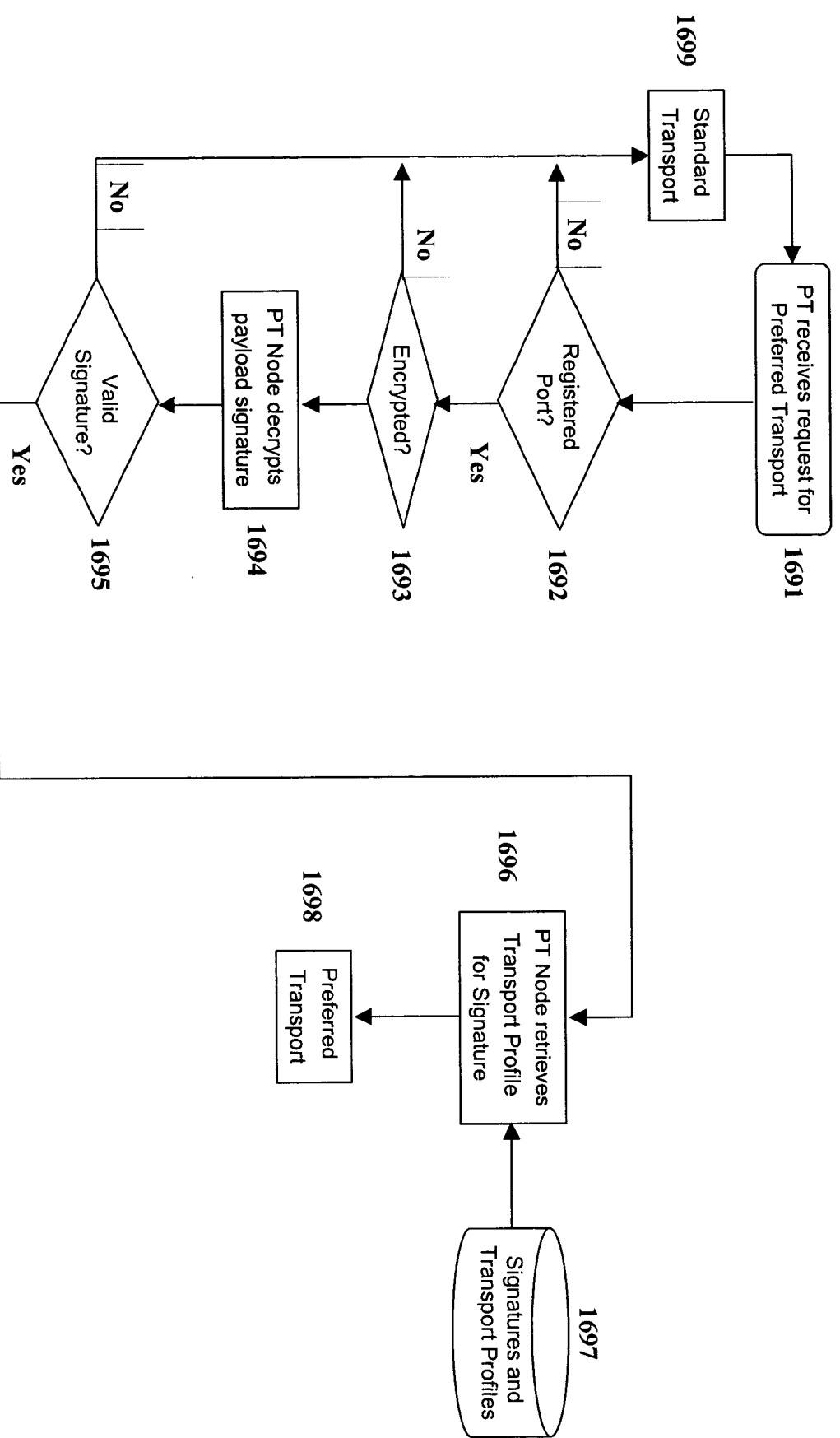
# Figure 19a



METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS



# Figure 20a



# Fig 21

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
 DOCKET NO.: 026215-00005  
 Kurt A. DOBBINS

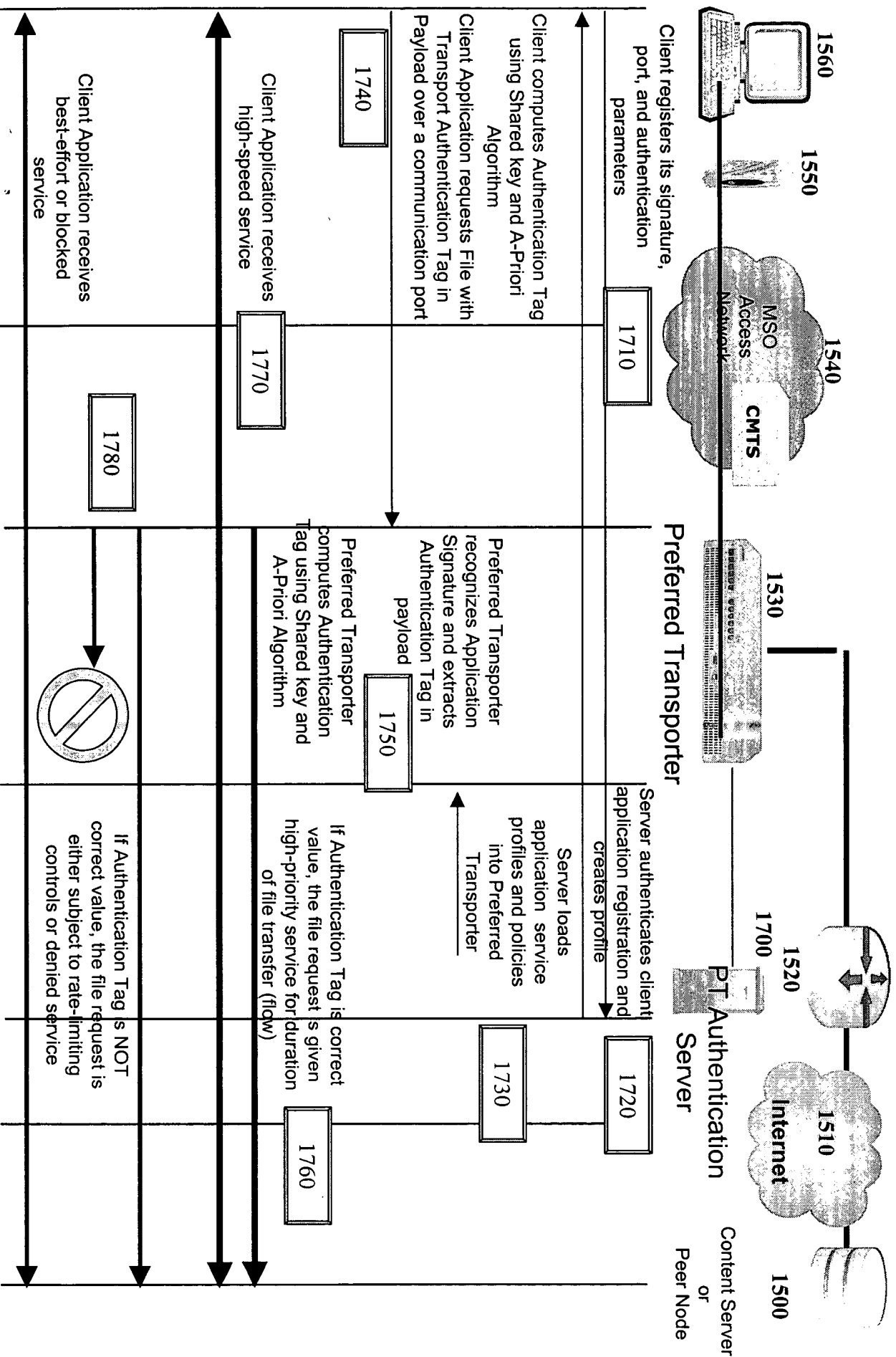
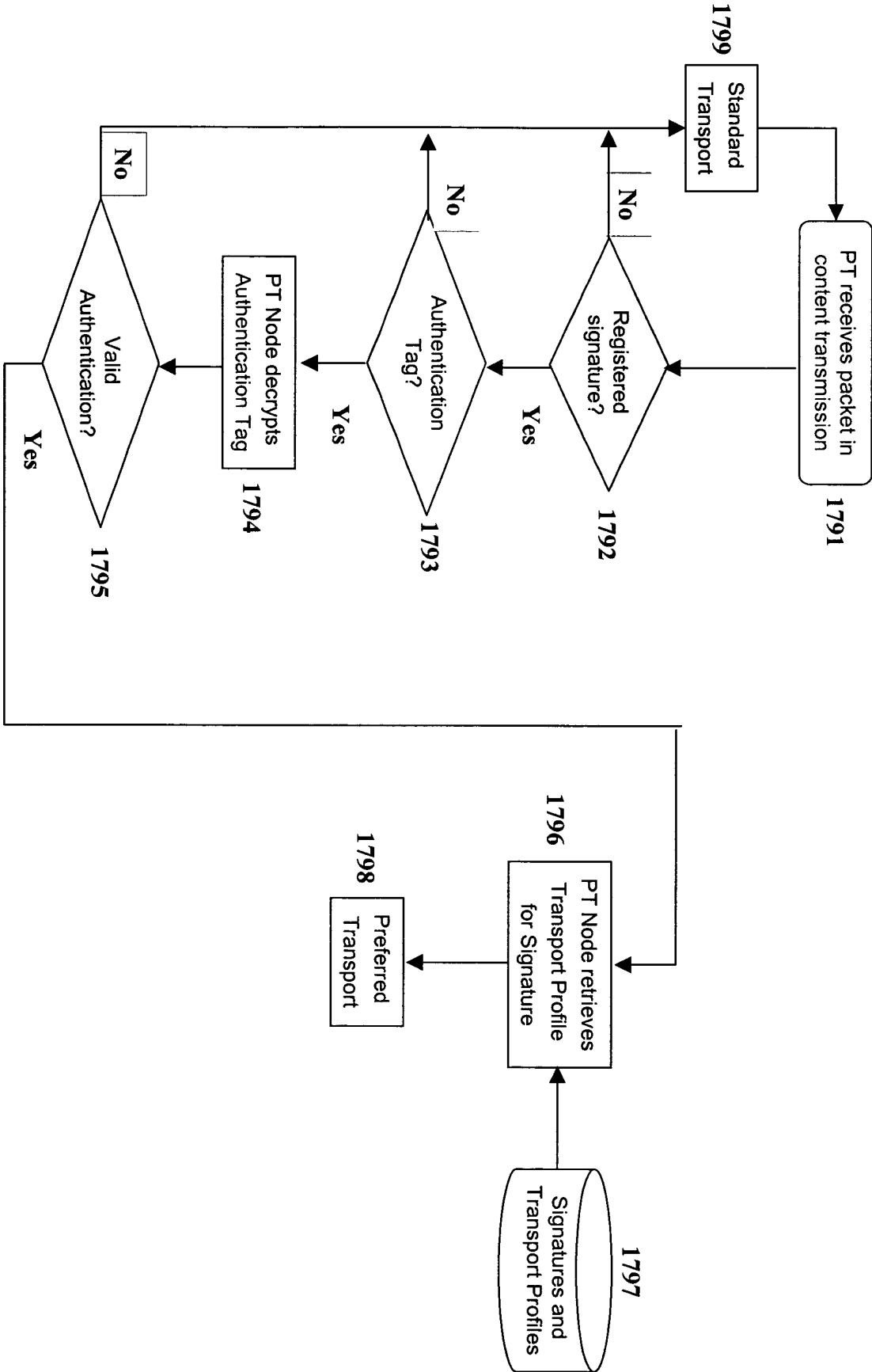


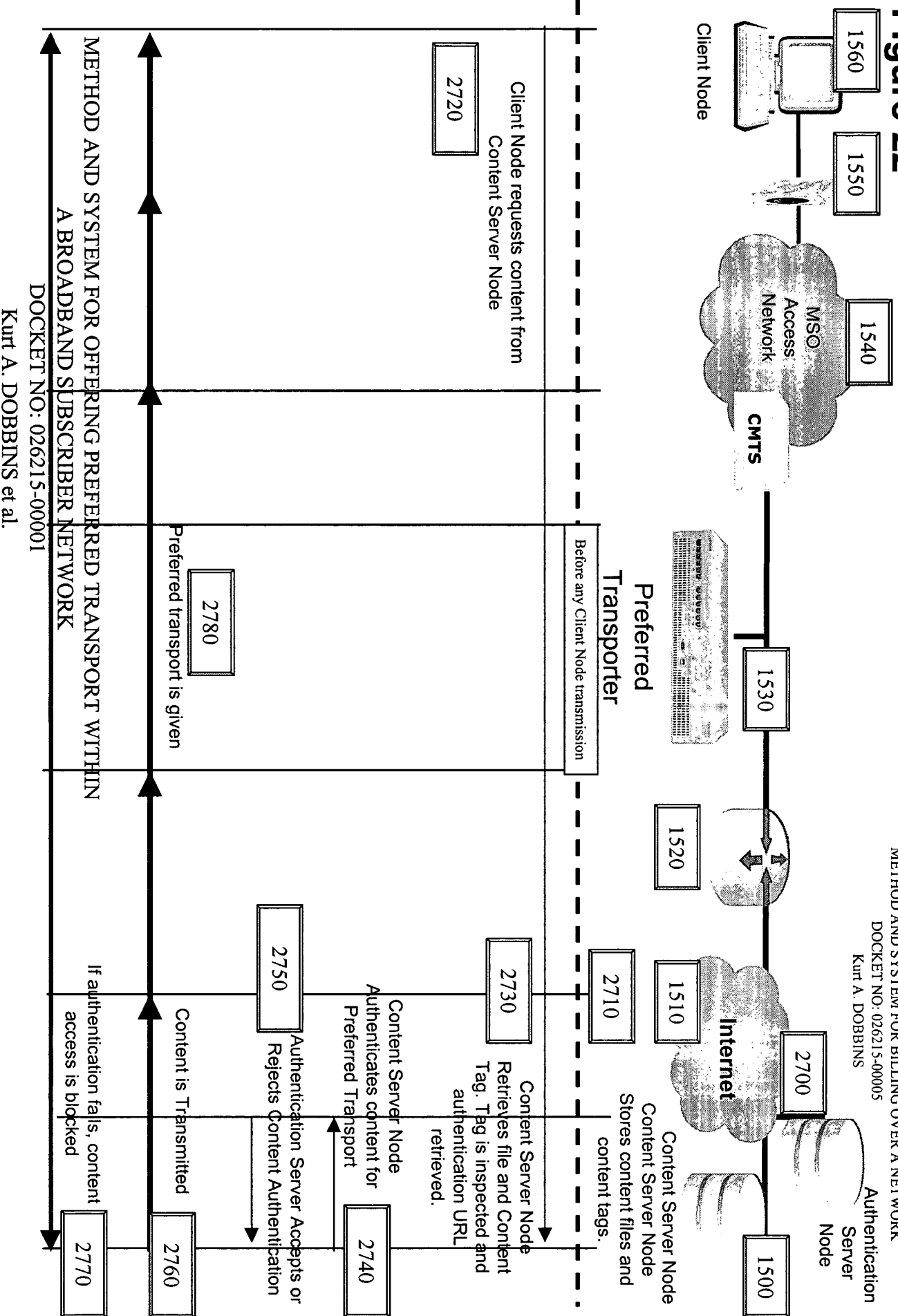
Figure 21a





# Figure 22

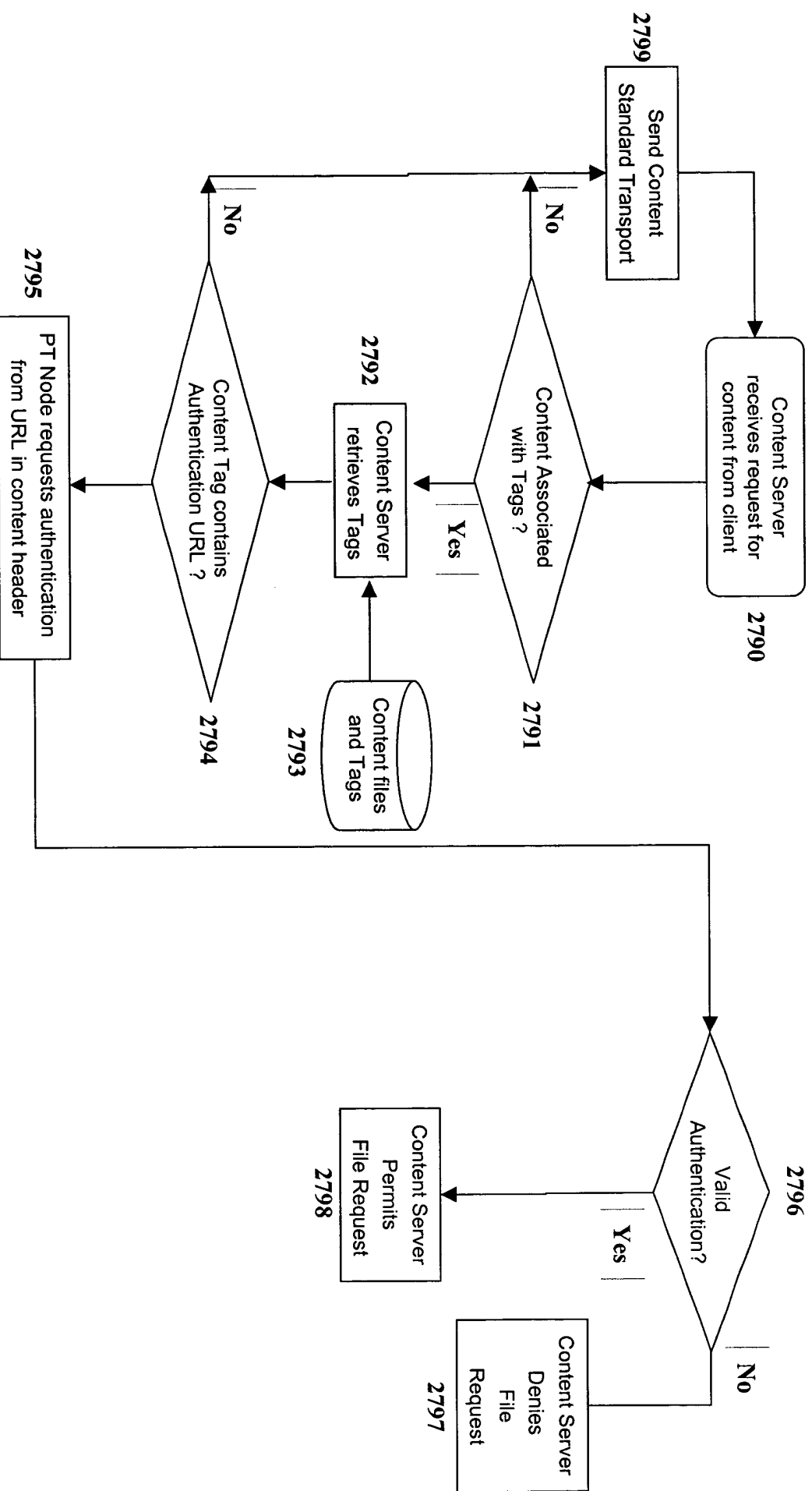
METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
 DOCKET NO.: 026215-00005  
 Kurt A. DOBBINS



METHOD AND SYSTEM FOR OFFERING PREFERRED TRANSPORT WITHIN  
 A BROADBAND SUBSCRIBER NETWORK

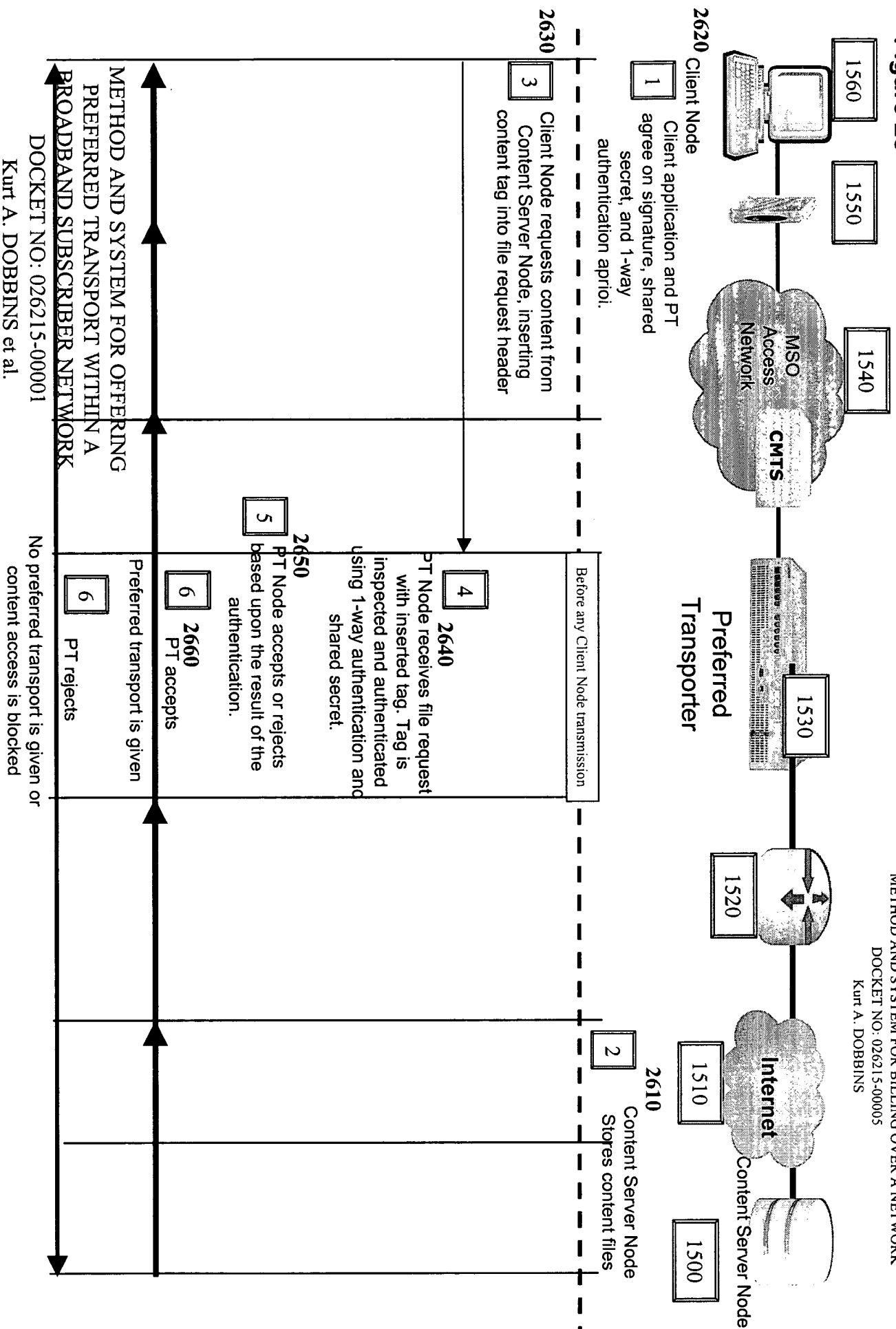
DOCKET NO: 026215-00001  
 Kurt A. DOBBINS et al.

# Figure 22a

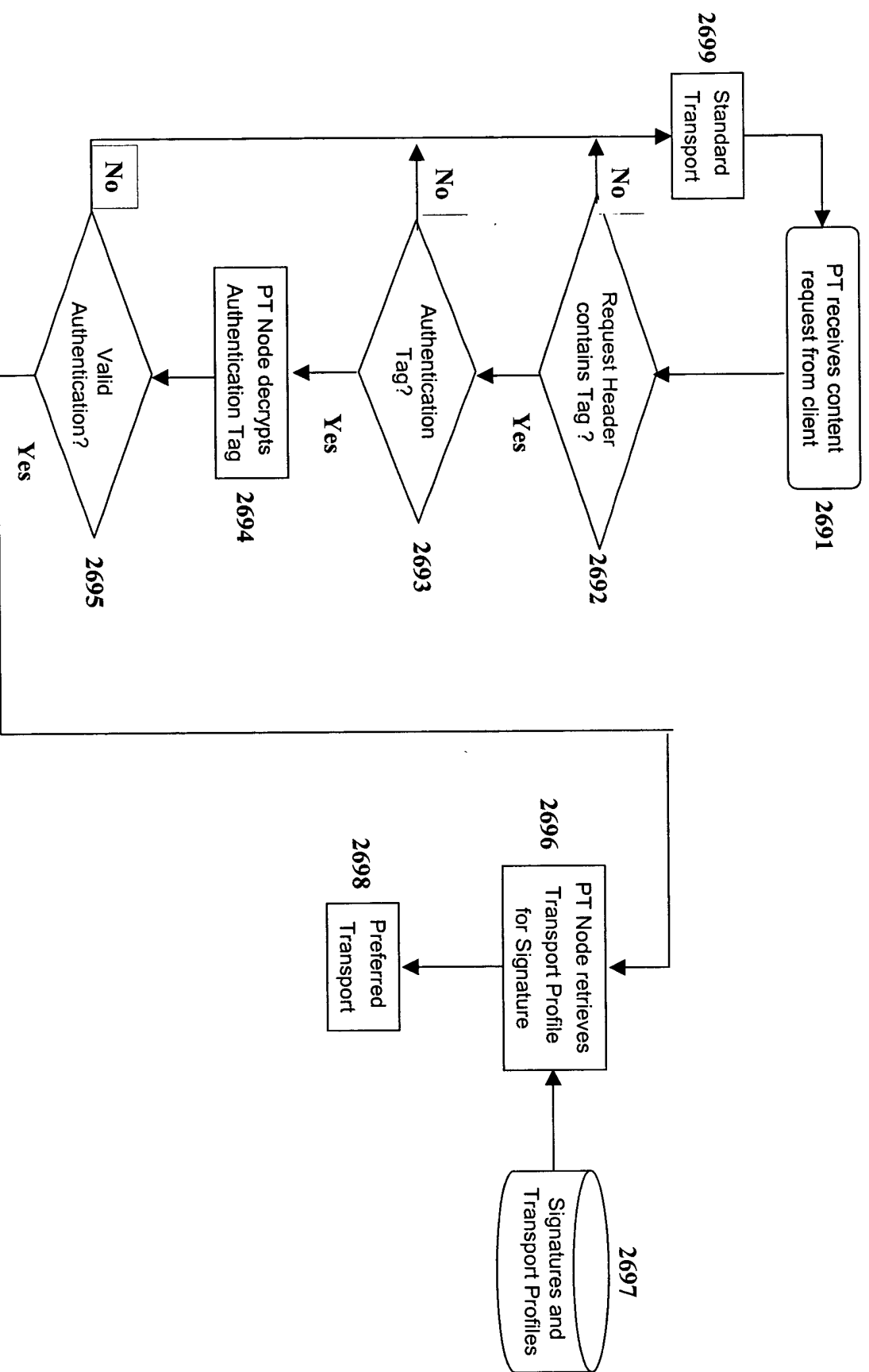


**Figure 23**

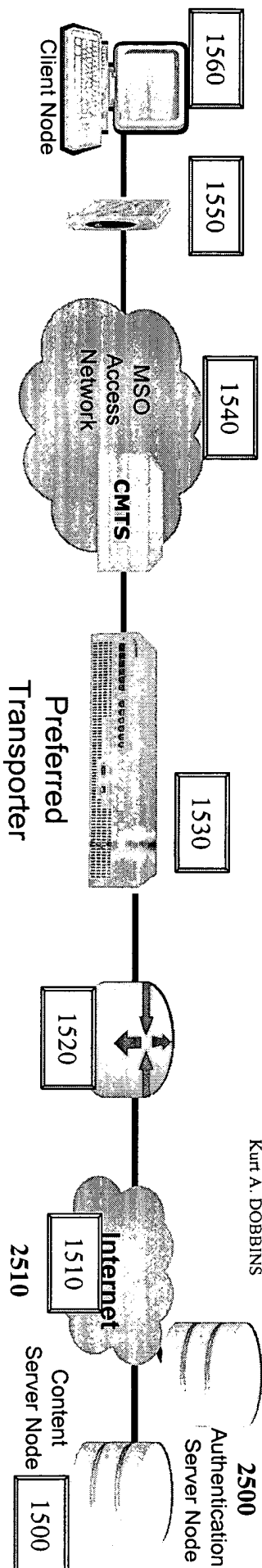
METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
 DOCKET NO.: 026215-00005  
 Kurt A. DOBBINS



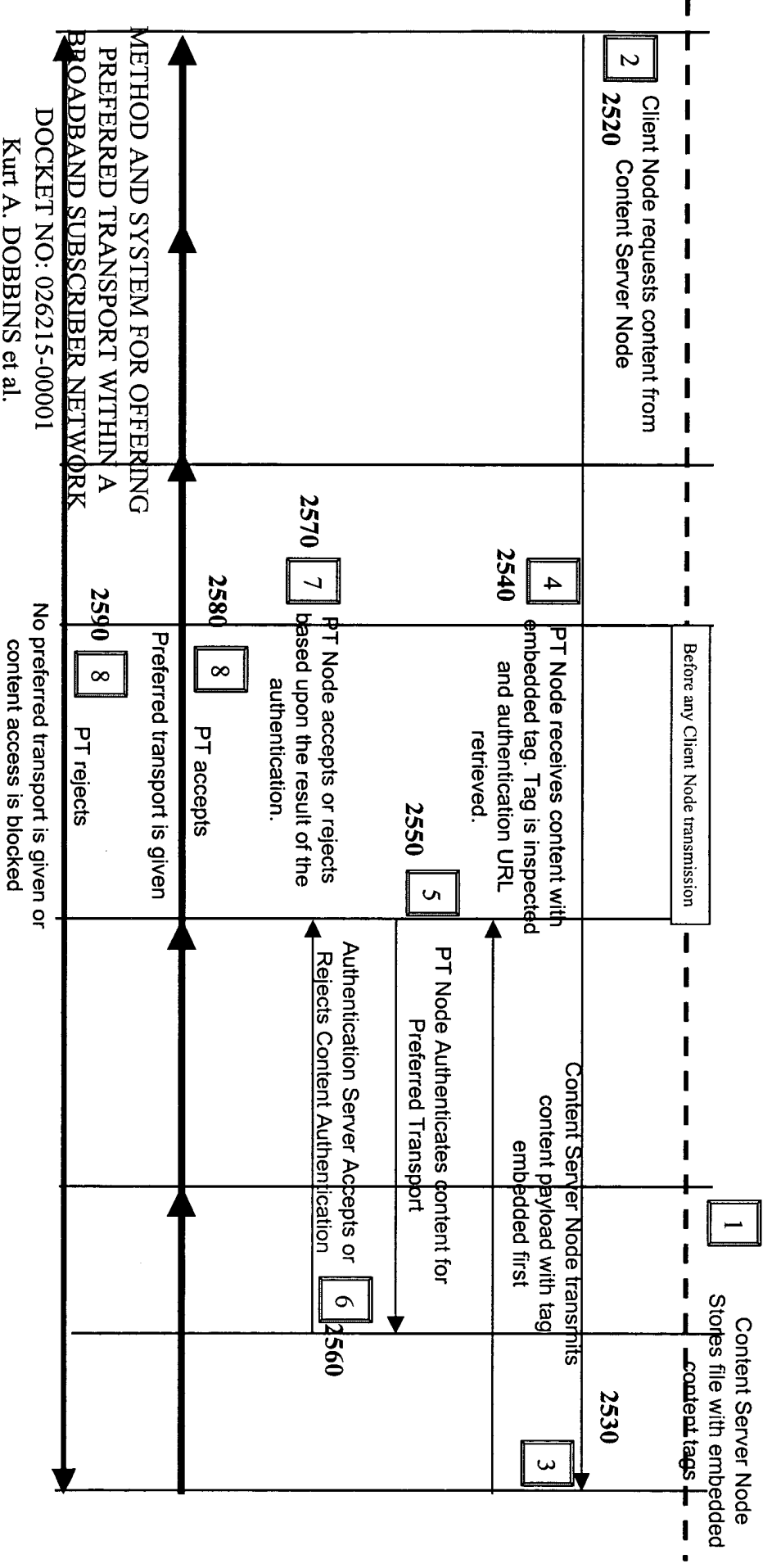
**Figure 23a**



**Figure 24**

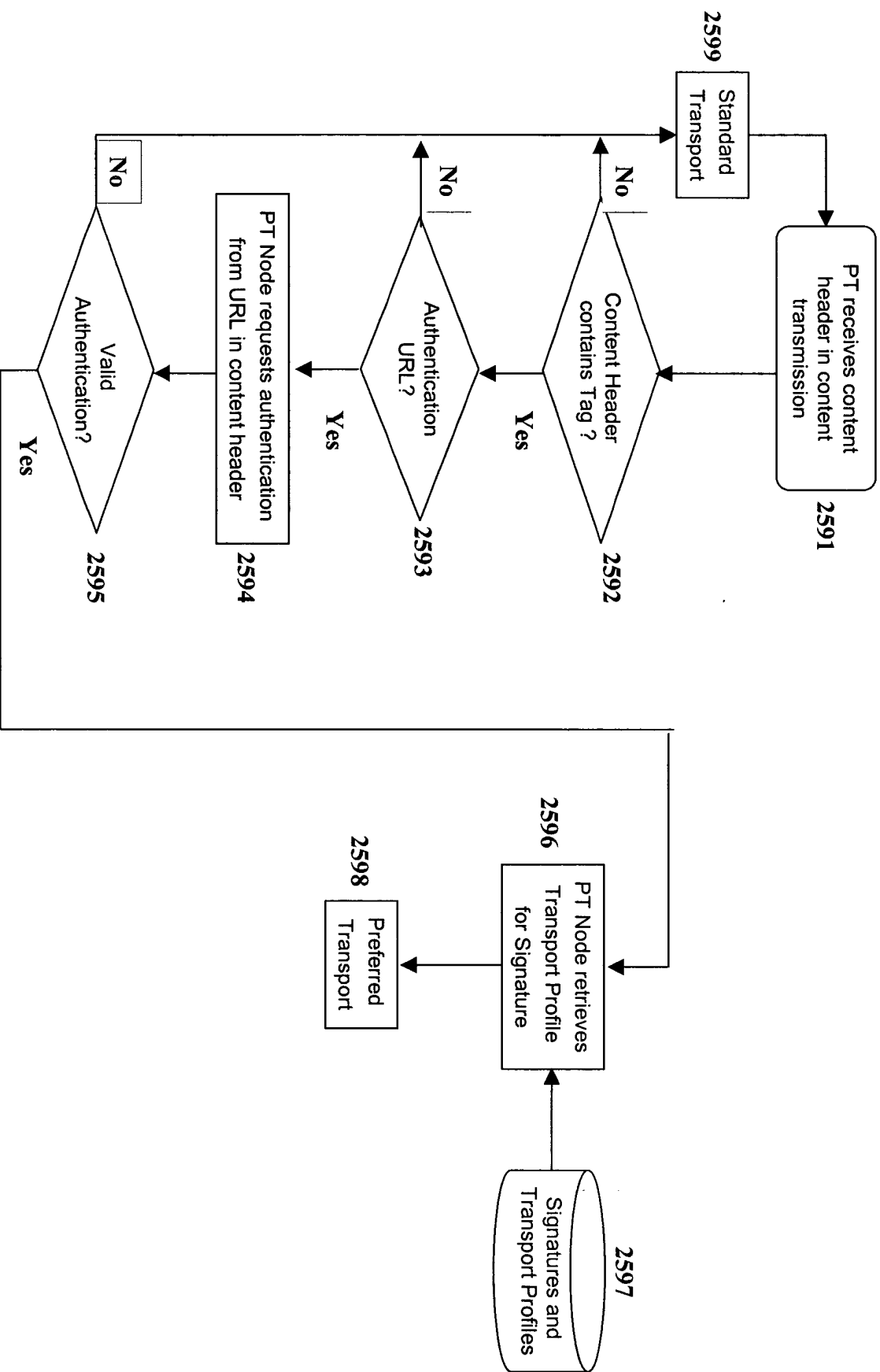


METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
 DOCKET NO.: 026215-00005  
 Kurt A. DOBBINS



DOCKET NO: 026215-00001  
 Kurt A. DOBBINS et al.

# Figure 24a



# Figure 25

- **Leverage OLD Tree for Self-naming Tags**
  - Gives digital representation to textual names
  - Allows arbitrary hierarchy
  - Extensible with new content types
  - Packet encoding will use ASN.1 BER
- **Name Space Maintained by host**
  - Publish as Informational IETF MIB

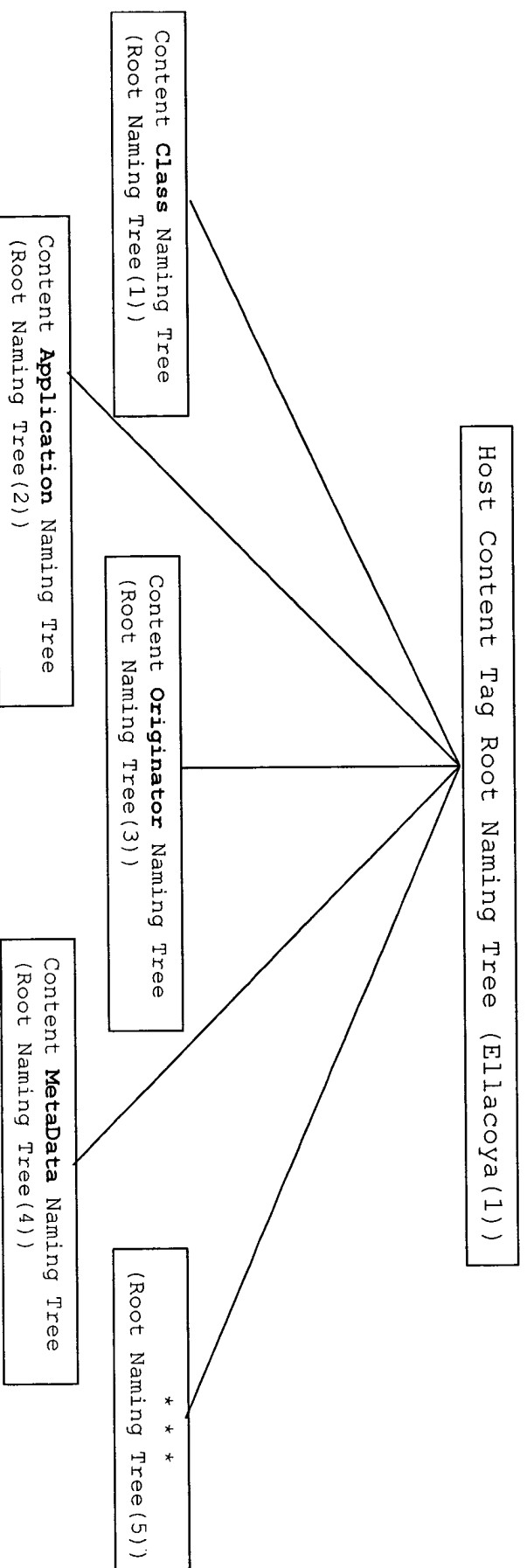
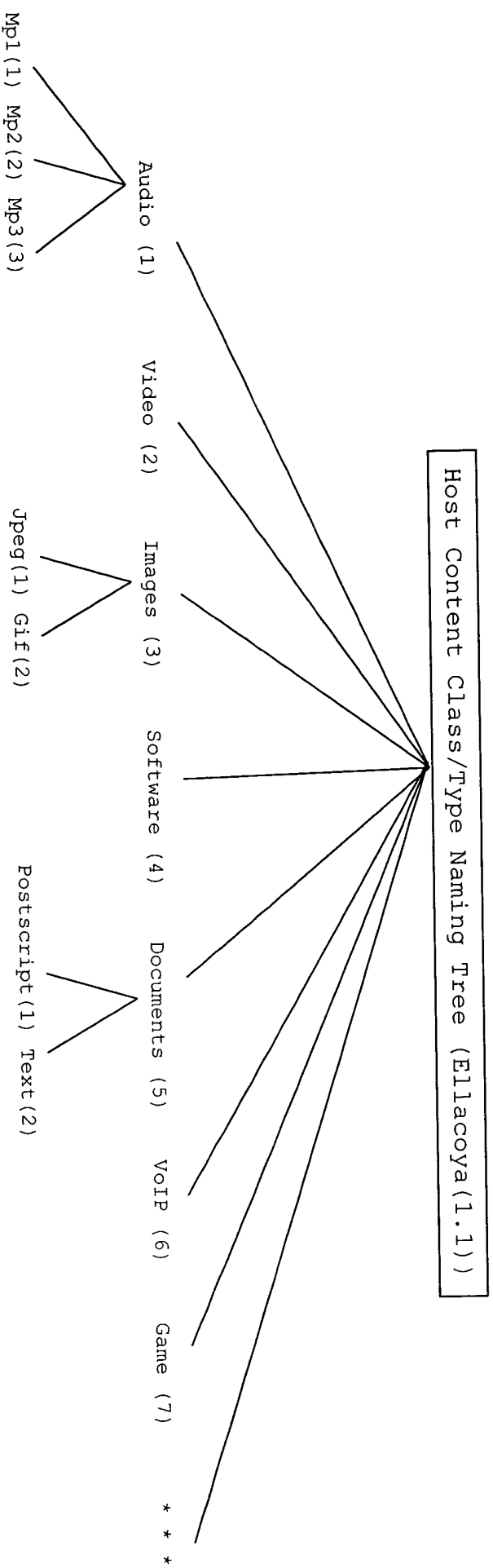


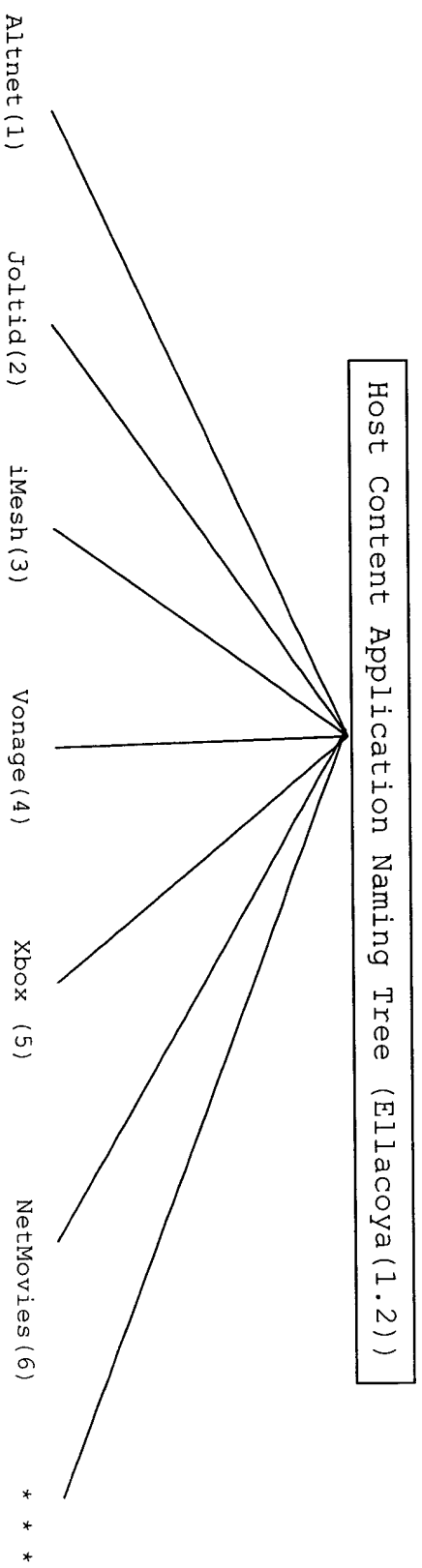
Figure 26





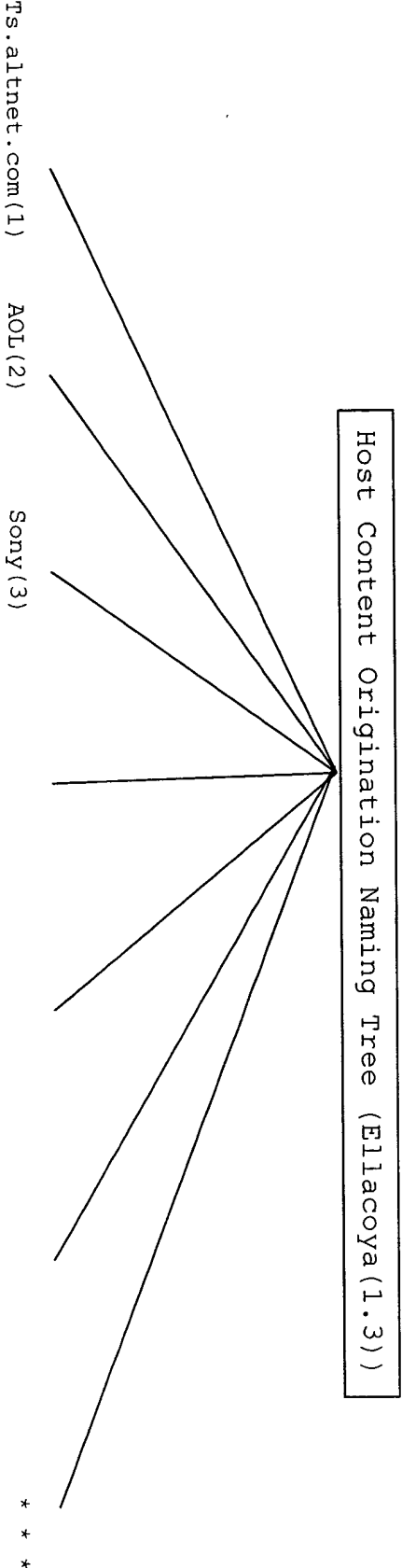
# Figure 27

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



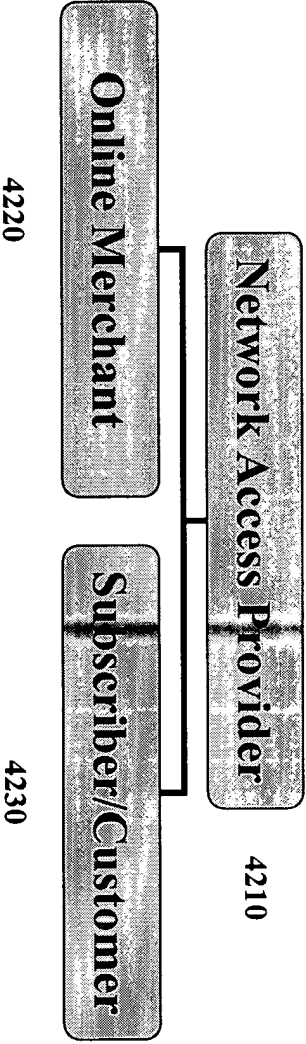
# Figure 28

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



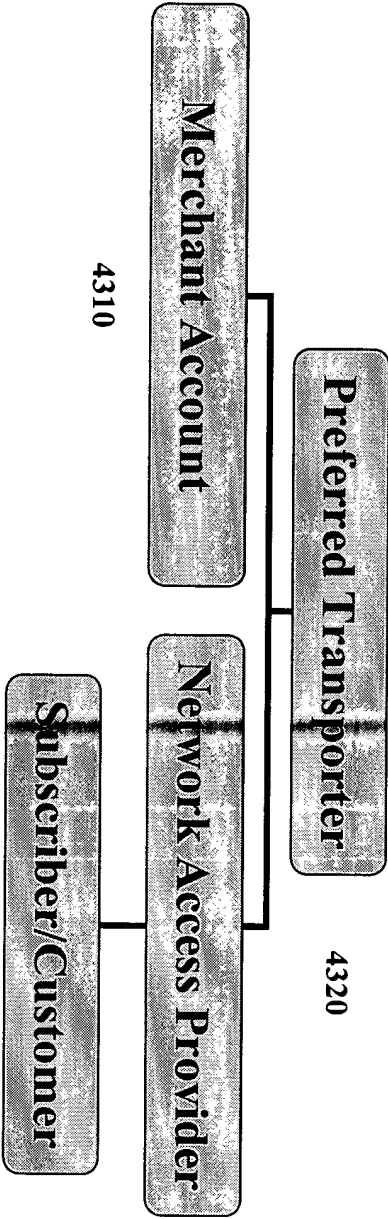
# Figure 29

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



**Figure 30**

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO. 026215-00005  
Kurt A. DOBBINS



# Figure 31

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

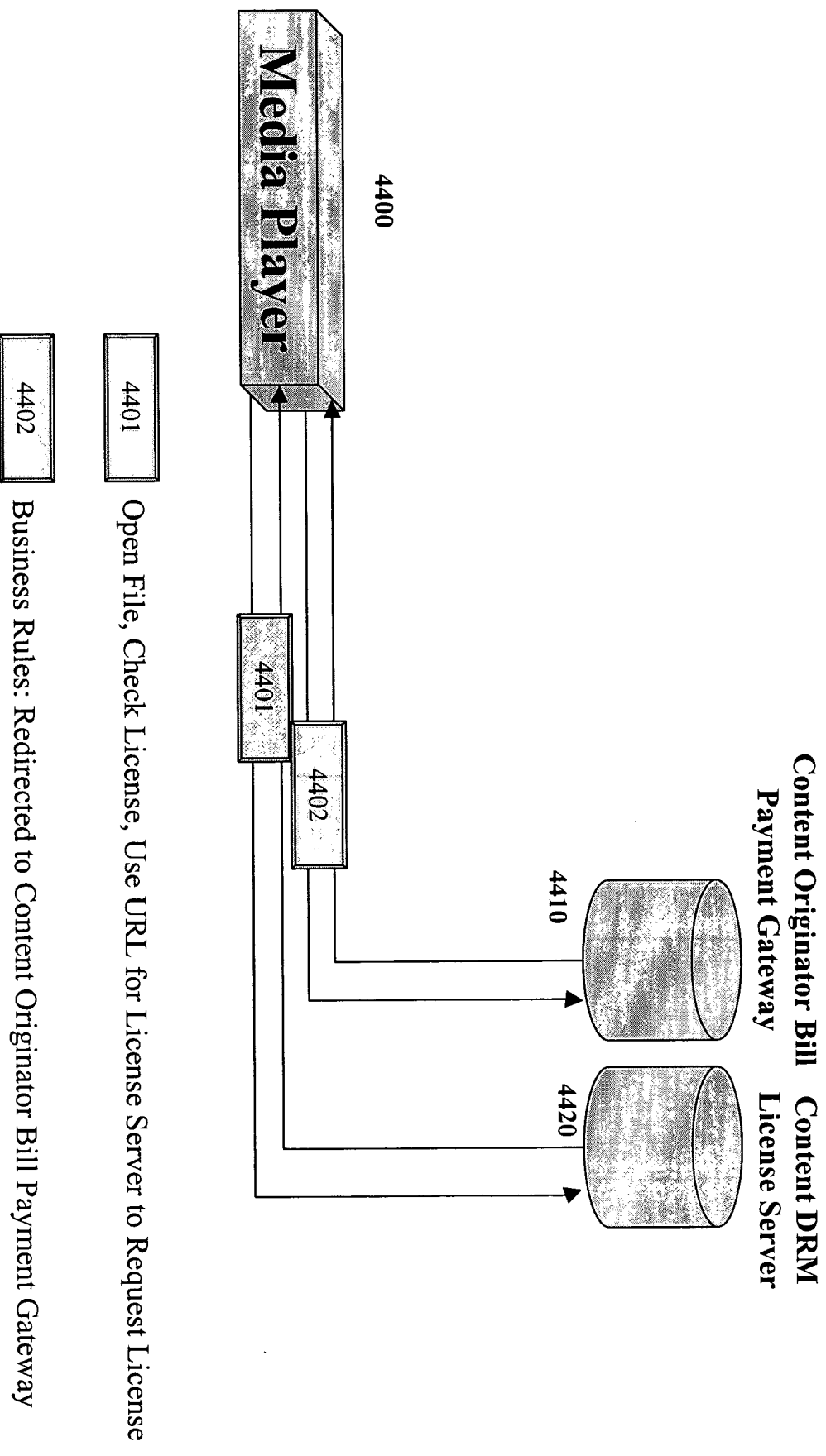
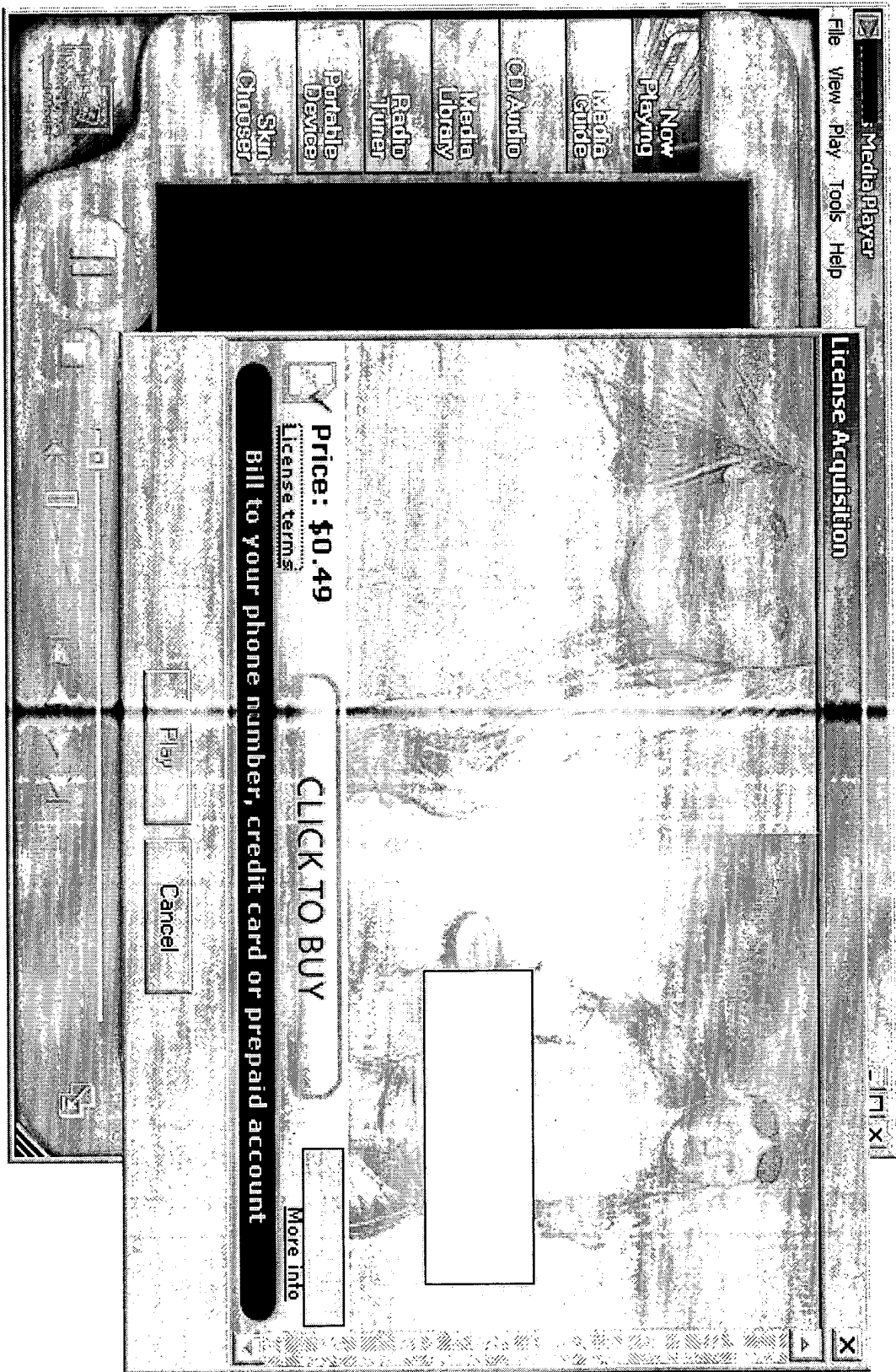


Figure 32

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS



# Figure 33

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

License Acquisition

STEP 2 of 3. CREATE YOUR QUICK ACCESS PASS

Secure connection

Creates an easy one-step process for purchasing content in future

First Name

Email Address

Password

Retype Password

Email address required for verification - will not be used for marketing purposes. Your privacy is important to us. [Privacy Statement](#)

Price : \$0.49

License terms

Play

Cancel

License Acquisition

STEP 3 of 3. ENTER YOUR BILLING DETAILS

Secure connection

Choose credit card:

Select a credit card type

Card number and expiration:

Verification number:

Billing zip code and country:

Price: \$0.49

Enter your details and p

Play

Cancel

License Acquisition

THANK YOU, CLICK PLAY!

Your account info has been sent to your email address. You can edit your account details at [www.alm.net](#). You can view your transactions at [my.alm.net](#)

Price: \$0.49

Congratulations! Purchase was successful. Click Play!

ALMNET

More info

Play

Cancel

Figure 34

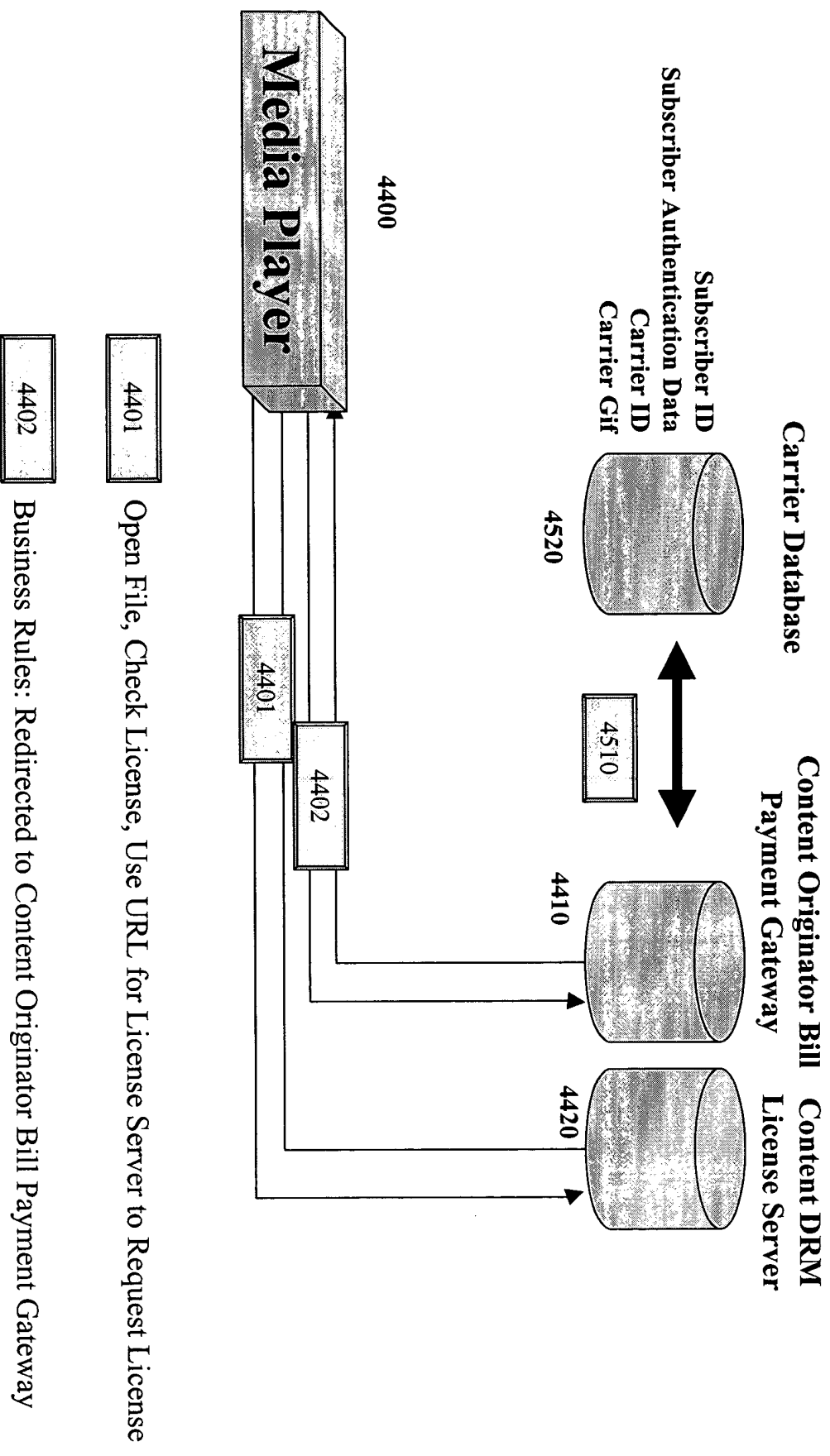




Figure 35

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

License Acquisition

STEP 1 of 3. CHOOSE A PAYMENT OPTION

Secure connection

**CREDIT CARD**

**ANONYMOUS PURCHASE**

**CABLE BILL**

[Learn More](#)

[Learn More](#)

[Learn More](#)

[Go Back](#)

**Price: \$0.49**

[License Terms](#)

[More Info](#)

**This is the first step to your Quick Access Pass...**

[Play](#) [Cancel](#)

Figure 36

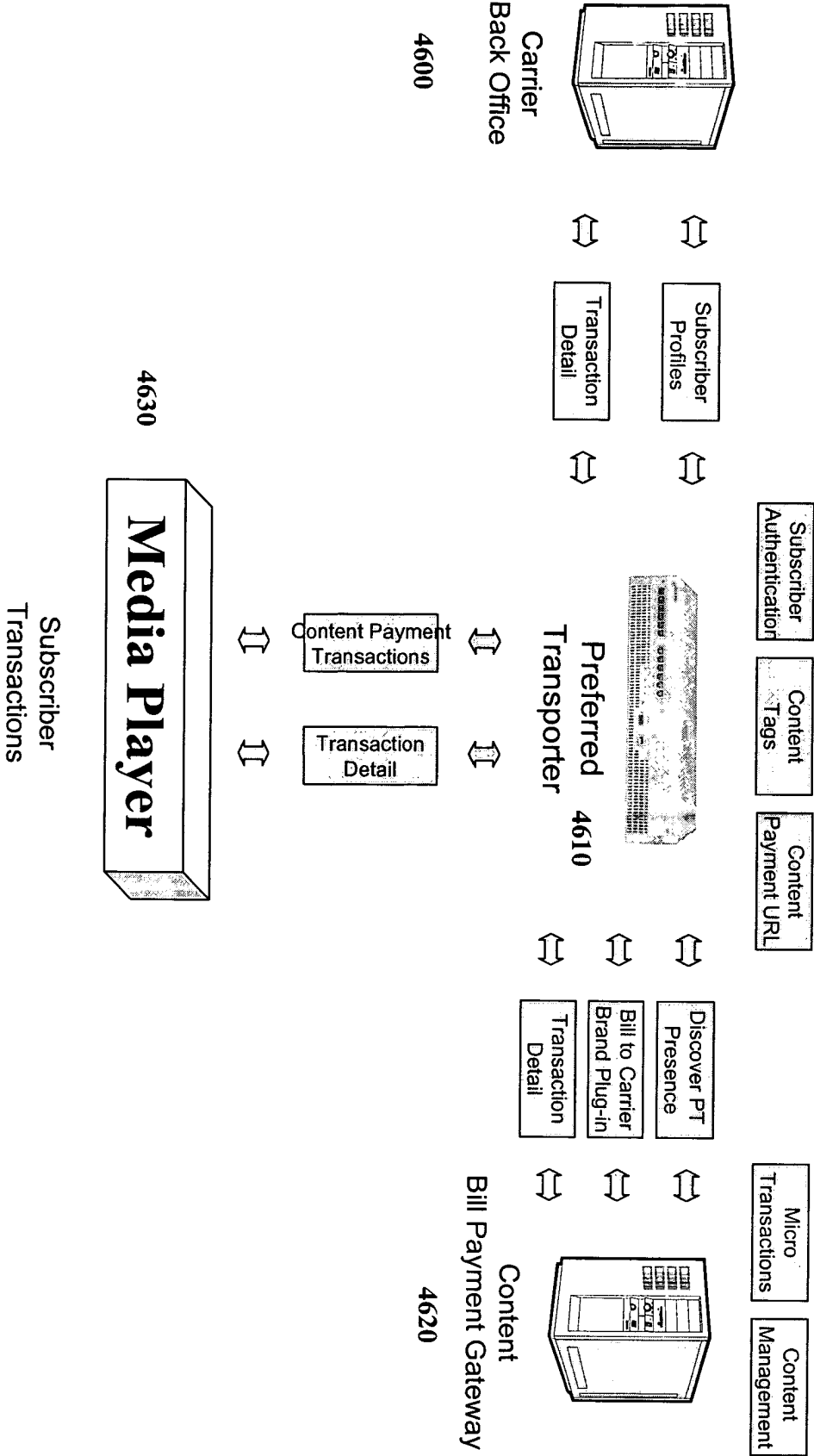


Figure 37

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBRINS

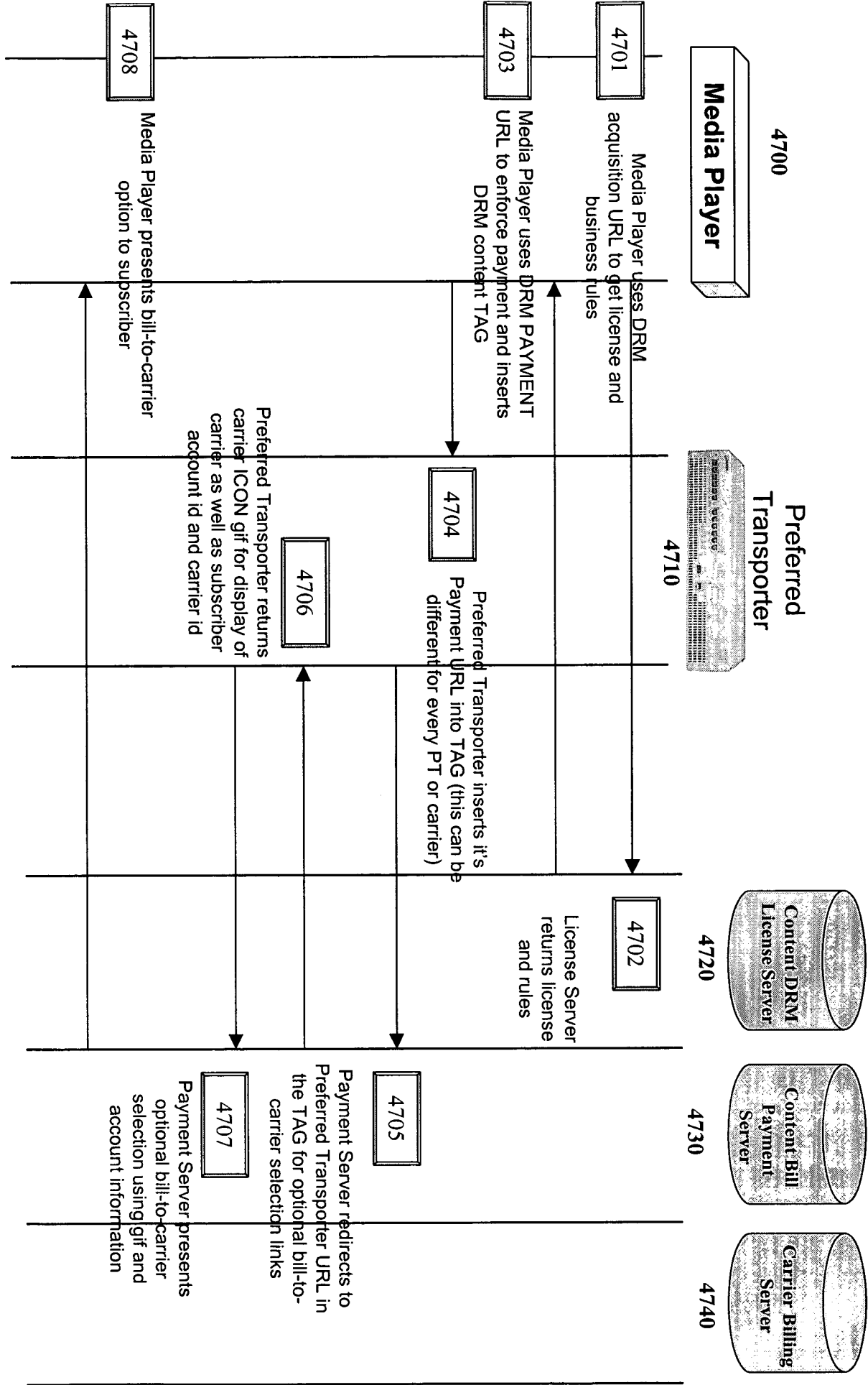
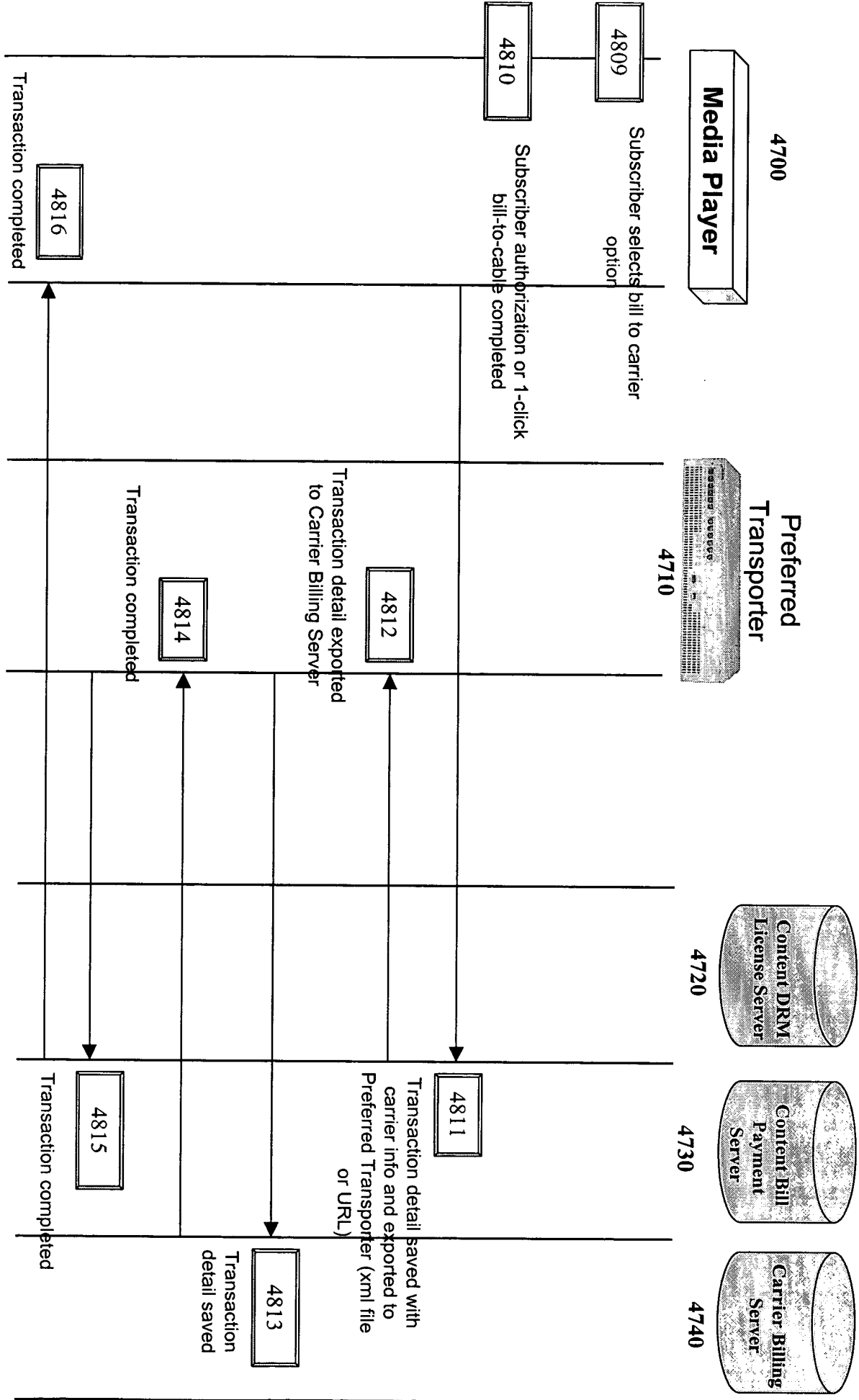


Figure 38

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS



## Figure 39

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO: 026215-00005  
Kurt A. DOBBINS

1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3		
Tag Identifier				Tag Length				Tag Version				Reserved										Authenticated Transport				Reserved									
Content Class/Type Encoded OID																		Content Application Encoded OID																	
Content Originator Encoded OID																		Content Meta Data Encoded OID																	
Preferred Transporter Payment URL																																			

# Figure 40

METHOD AND SYSTEM FOR BILLING OVER A NETWORK  
DOCKET NO.: 026215-00005  
Kurt A. DOBBINS

Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "PYMT"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	8	Reserved for Future Use	Unused
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Preferred Transporter URL	32	URL of Preferred transporter in the carrier's network.	Dynamically inserted by the access provider Preferred Transporter node.